FIG.1

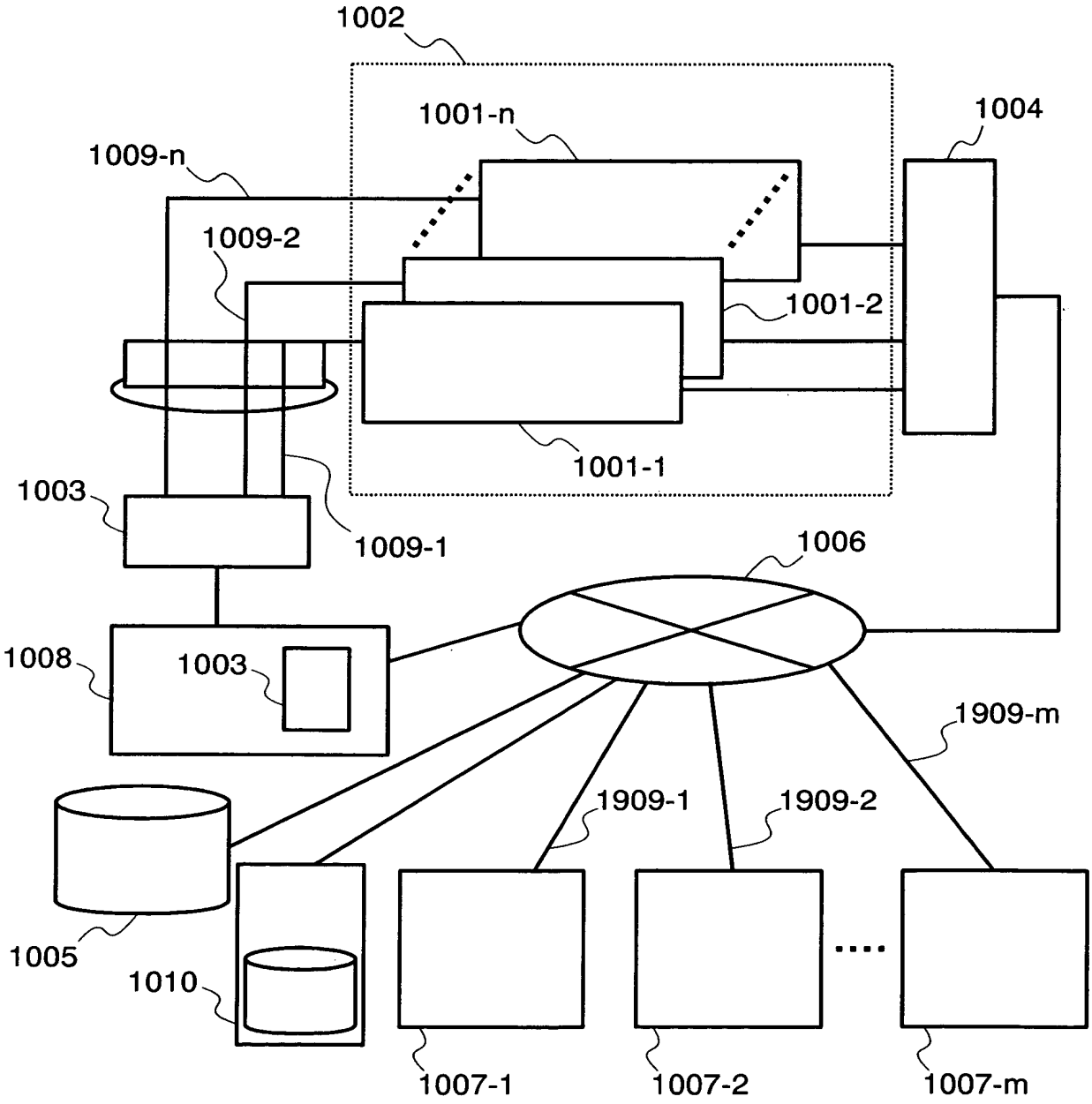

1002
1001-n
1004
1009-n
1009-2
1001-2
1001-1
1003
1009-1
1006
1008
1003
1909-m
1909-1
1909-2
1005
1010
1007-1
1007-2
1007-m

FIG.2

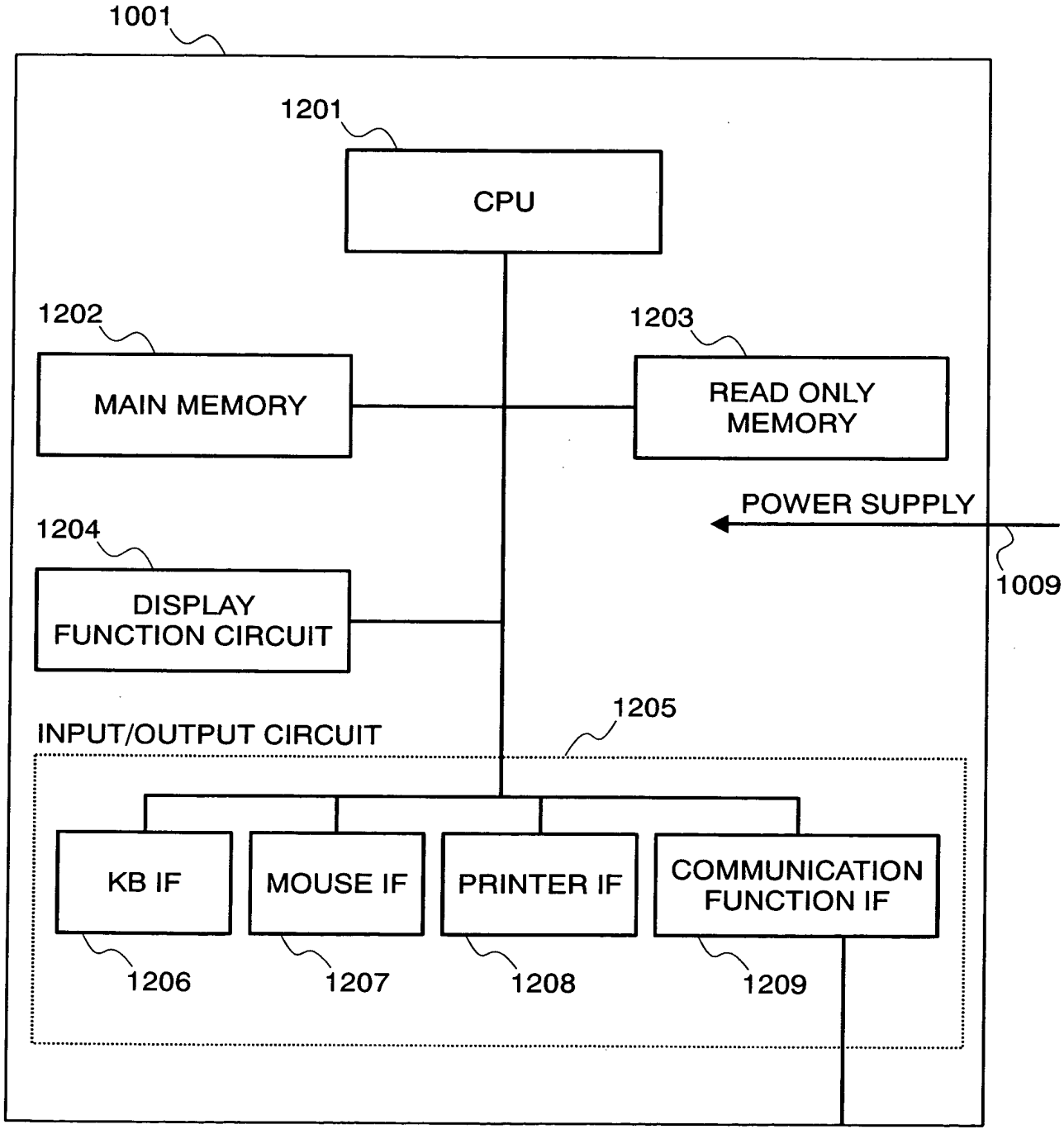

1001
1201
CPU
1202
MAIN MEMORY
1203
READ ONLY MEMORY
POWER SUPPLY
1009
1204
DISPLAY FUNCTION CIRCUIT
1205
INPUT/OUTPUT CIRCUIT
KB IF
MOUSE IF
PRINTER IF
COMMUNICATION FUNCTION IF
1206
1207
1208
1209

FIG.3

1301

TABLE

1302 NO.	1303 POWER STATUS	1304 USER NAME	1305 ATTRIBUTE INFORMATION	1306 RUNNING STATUS
1	ON	Ichiro	CPU CLOCK, MEMORY, OTHERS	RUNNING
2	OFF	Taro	CPU CLOCK, MEMORY, OTHERS	—
3	ON	Yoshiko	CPU CLOCK, MEMORY, OTHERS	STANDBY
n	OFF	—	CPU CLOCK, MEMORY, OTHERS	—

FIG.4

1311

HIBERNATED USER LIST

1312 USER NAME	1313 APPLIED SUBSTRATE NO.	1314 ATTRIBUTE INFORMATION
Taro	2	CPU CLOCK, MEMORY, OTHERS
Hanako	5	CPU CLOCK, MEMORY, OTHERS
—	—	—
—	—	—

FIG.5

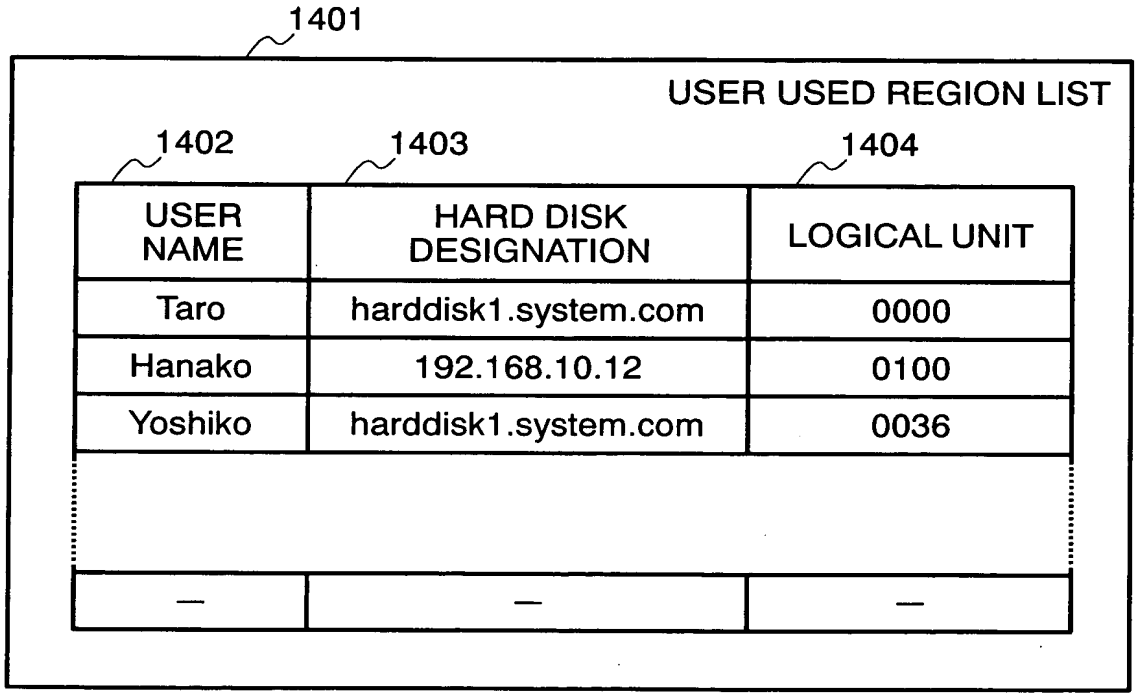

1401
USER USED REGION LIST
1402
1403
1404
USER NAME
HARD DISK DESIGNATION
LOGICAL UNIT
Taro
harddisk1.system.com
0000
Hanako
192.168.10.12
0100
Yoshiko
harddisk1.system.com
0036
—
—
—

FIG.6

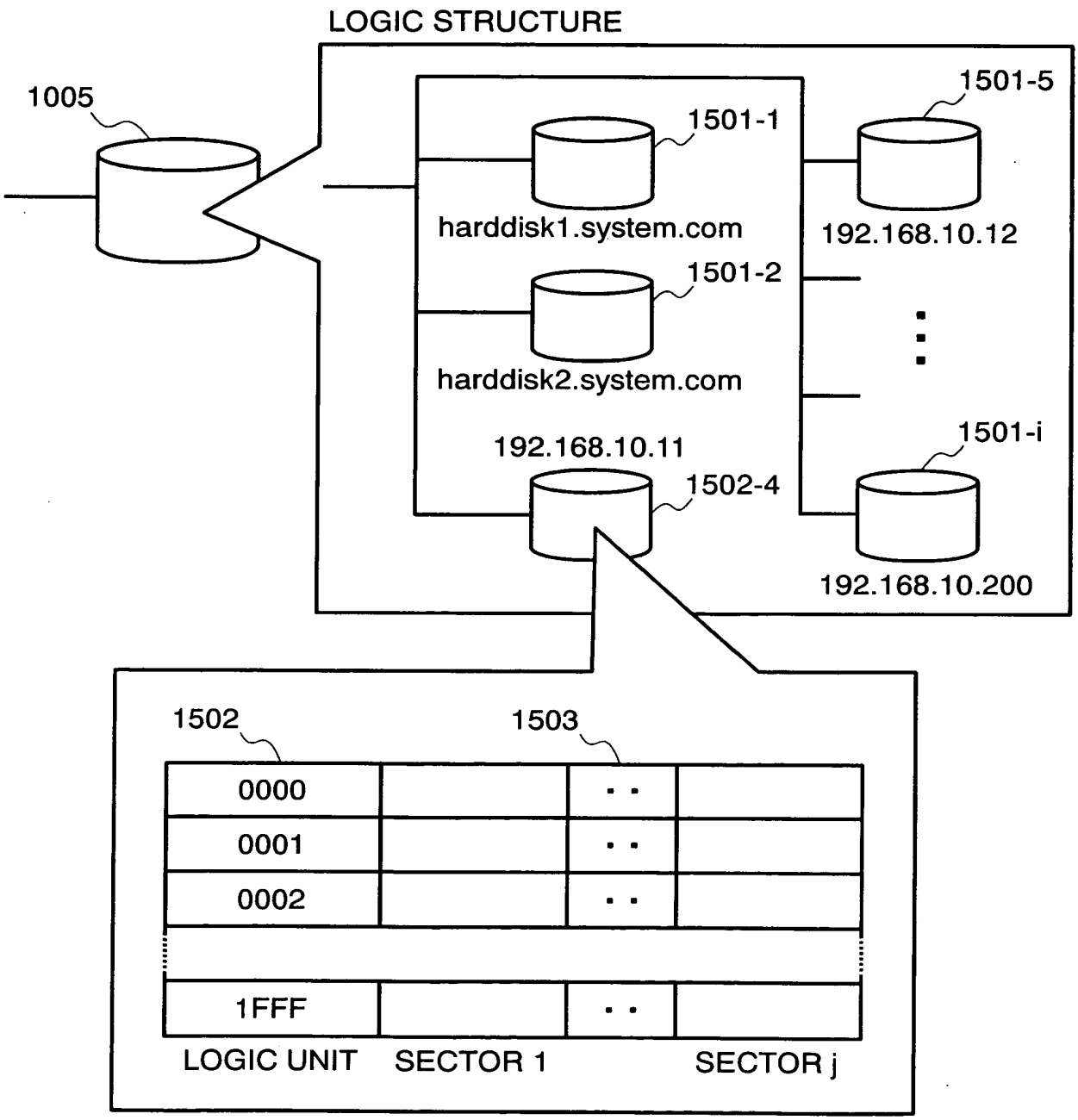

LOGIC STRUCTURE
1005
1501-1
harddisk1.system.com
1501-5
192.168.10.12
1501-2
harddisk2.system.com
192.168.10.11
1502-4
1501-i
192.168.10.200
1502
1503
0000
0001
0002
1FFF
LOGIC UNIT
SECTOR 1
SECTOR j

FIG.7

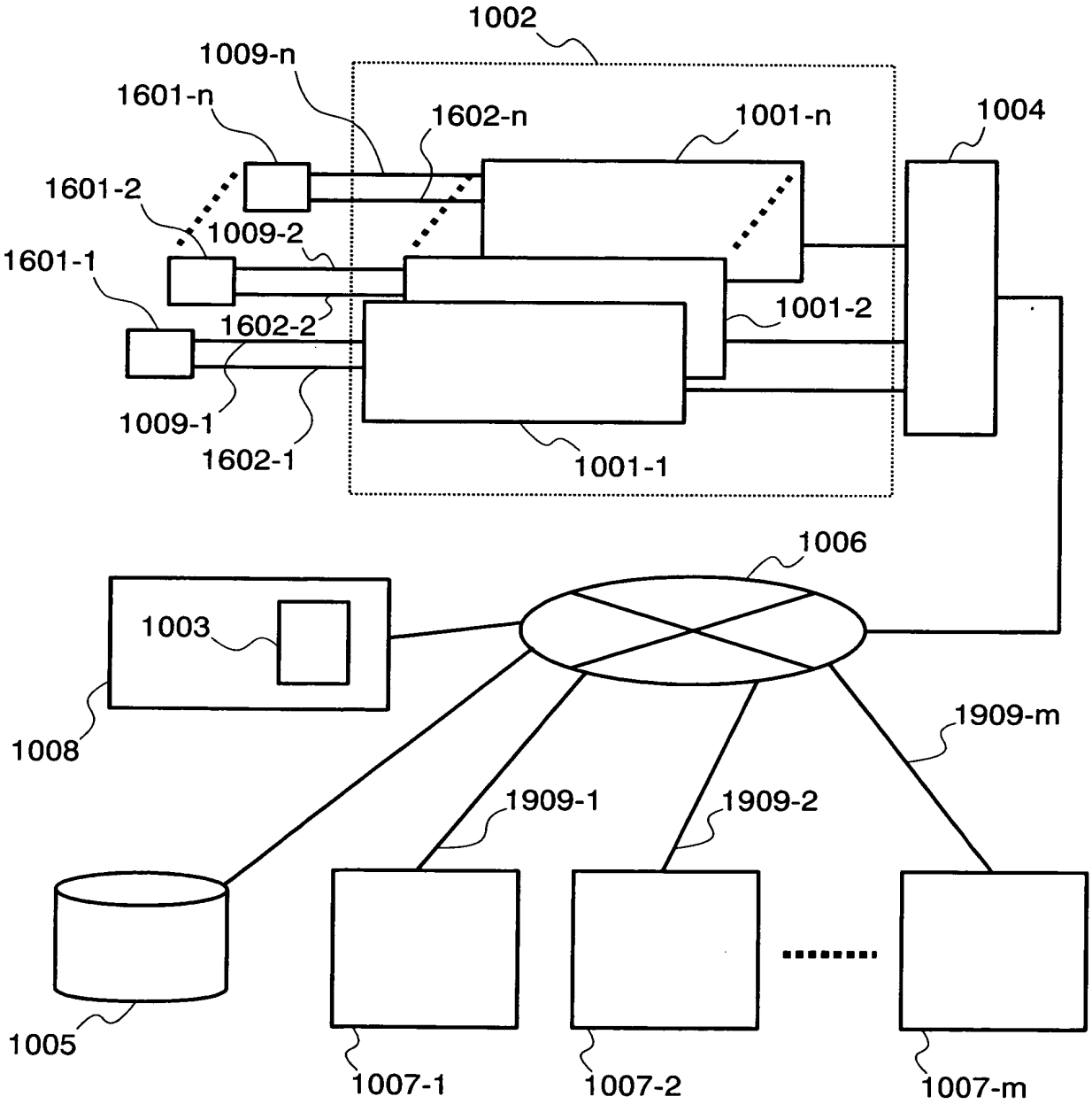

1002
1009-n
1601-n
1602-n
1001-n
1004
1601-2
1009-2
1601-1
1001-2
1602-2
1009-1
1602-1
1001-1
1006
1003
1008
1909-m
1909-1
1909-2
1005
1007-1
1007-2
1007-m

FIG.8

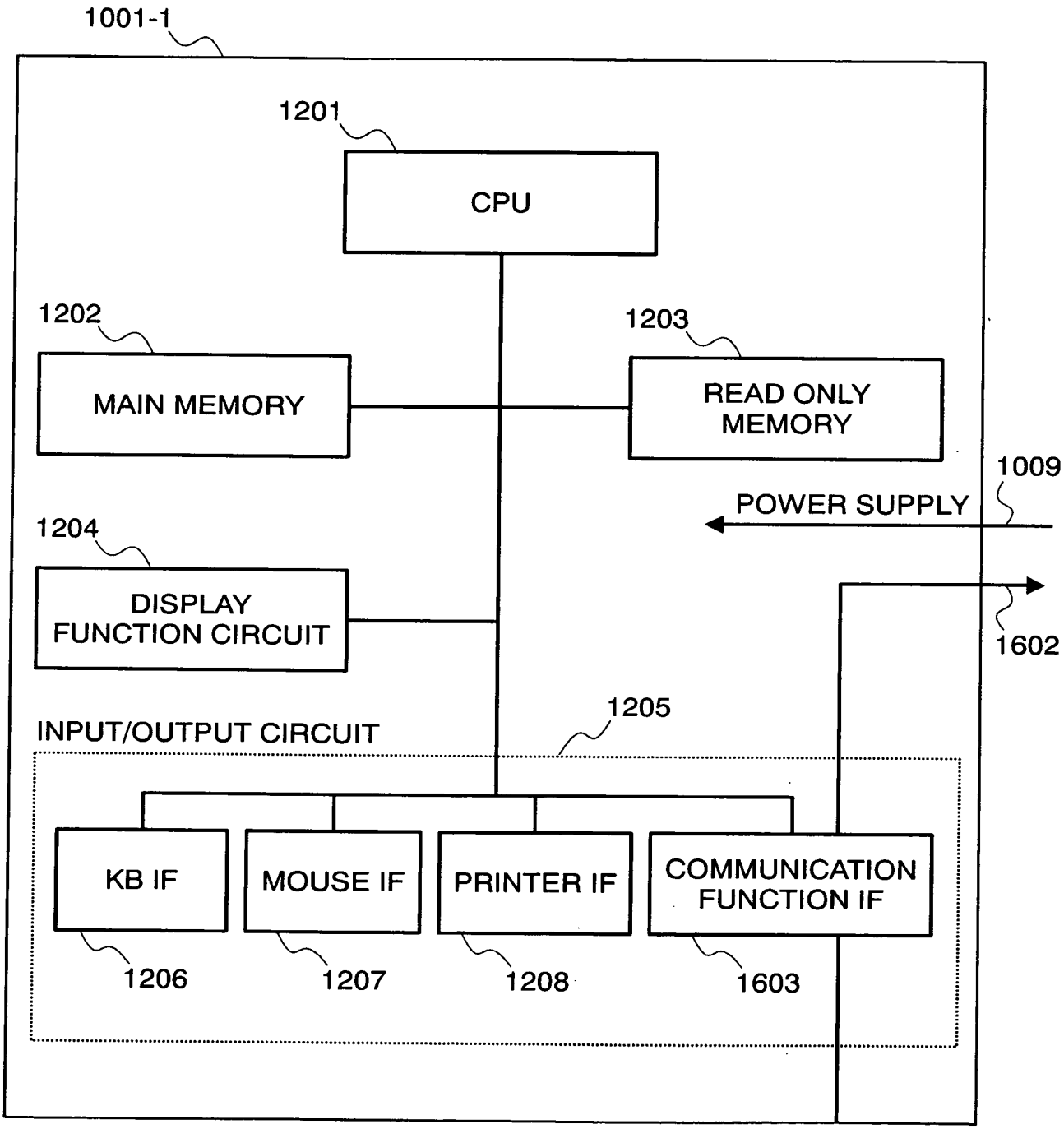

1001-1
1201
CPU
1202
MAIN MEMORY
1203
READ ONLY MEMORY
1009
POWER SUPPLY
1204
DISPLAY FUNCTION CIRCUIT
1602
1205
INPUT/OUTPUT CIRCUIT
KB IF
MOUSE IF
PRINTER IF
COMMUNICATION FUNCTION IF
1206
1207
1208
1603

FIG.9

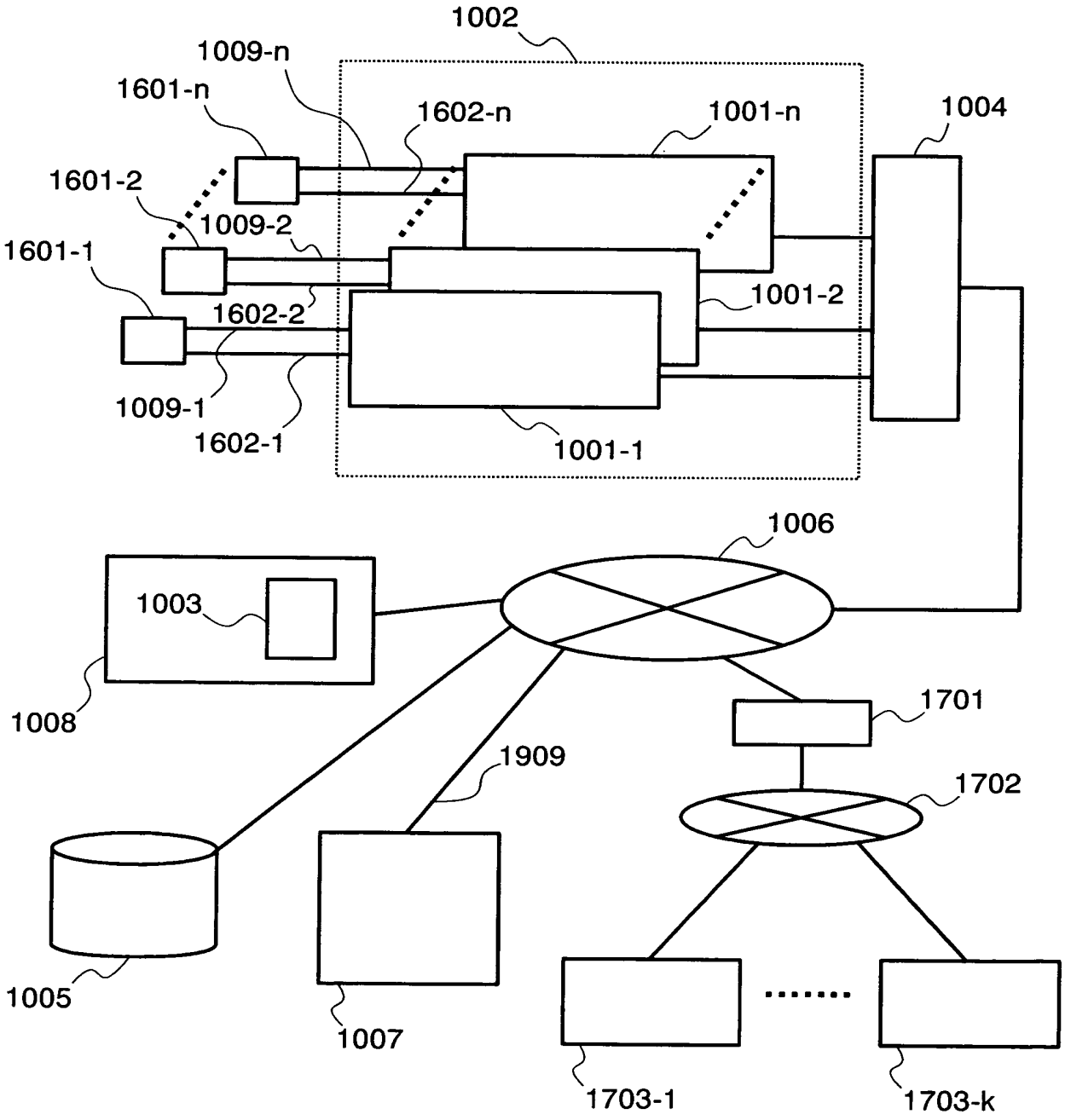

1002
1009-n
1601-n
1602-n
1001-n
1004
1601-2
1009-2
1601-1
1001-2
1602-2
1009-1
1602-1
1001-1
1006
1003
1008
1701
1909
1702
1005
1007
1703-1
1703-k

FIG.10

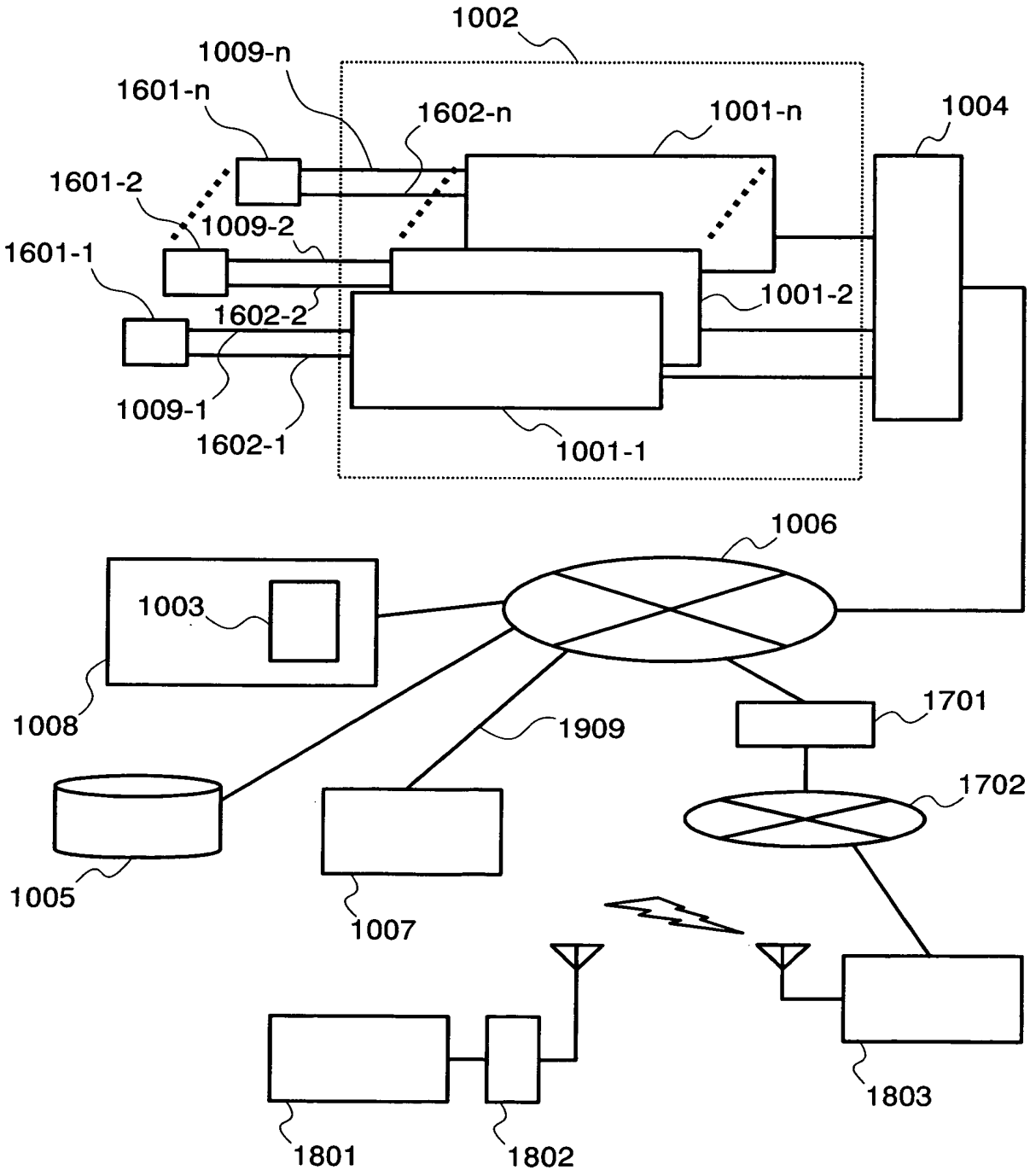

1002
1009-n
1601-n
1602-n
1001-n
1004
1601-2
1009-2
1601-1
1001-2
1602-2
1009-1
1602-1
1001-1
1006
1003
1008
1701
1909
1702
1005
1007
1803
1801
1802

FIG.11

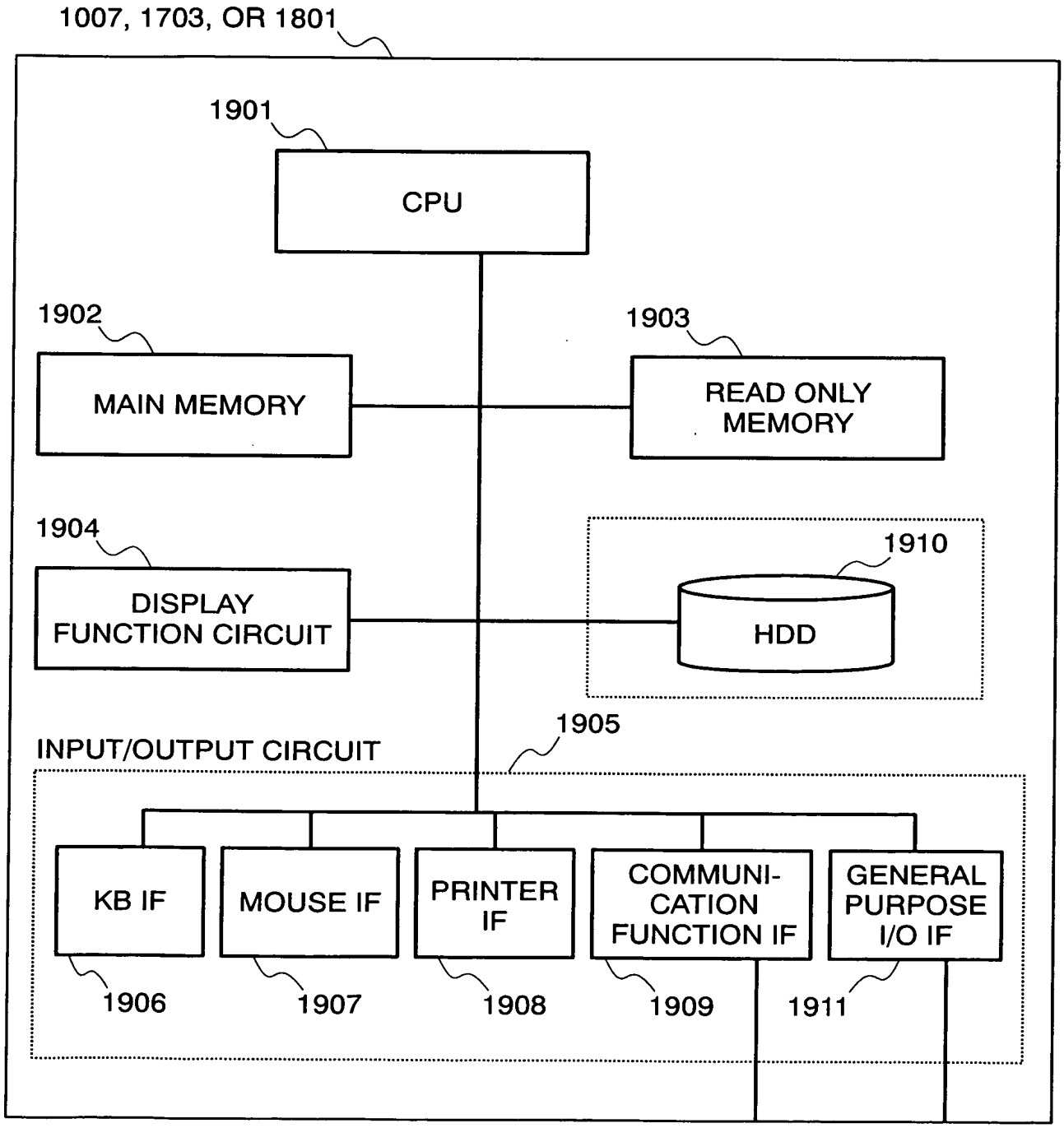

1007, 1703, OR 1801
1901
CPU
1902
MAIN MEMORY
1903
READ ONLY MEMORY
1904
DISPLAY FUNCTION CIRCUIT
1910
HDD
1905
INPUT/OUTPUT CIRCUIT
KB IF
MOUSE IF
PRINTER IF
COMMUNI-CATION FUNCTION IF
GENERAL PURPOSE I/O IF
1906
1907
1908
1909
1911

FIG.12

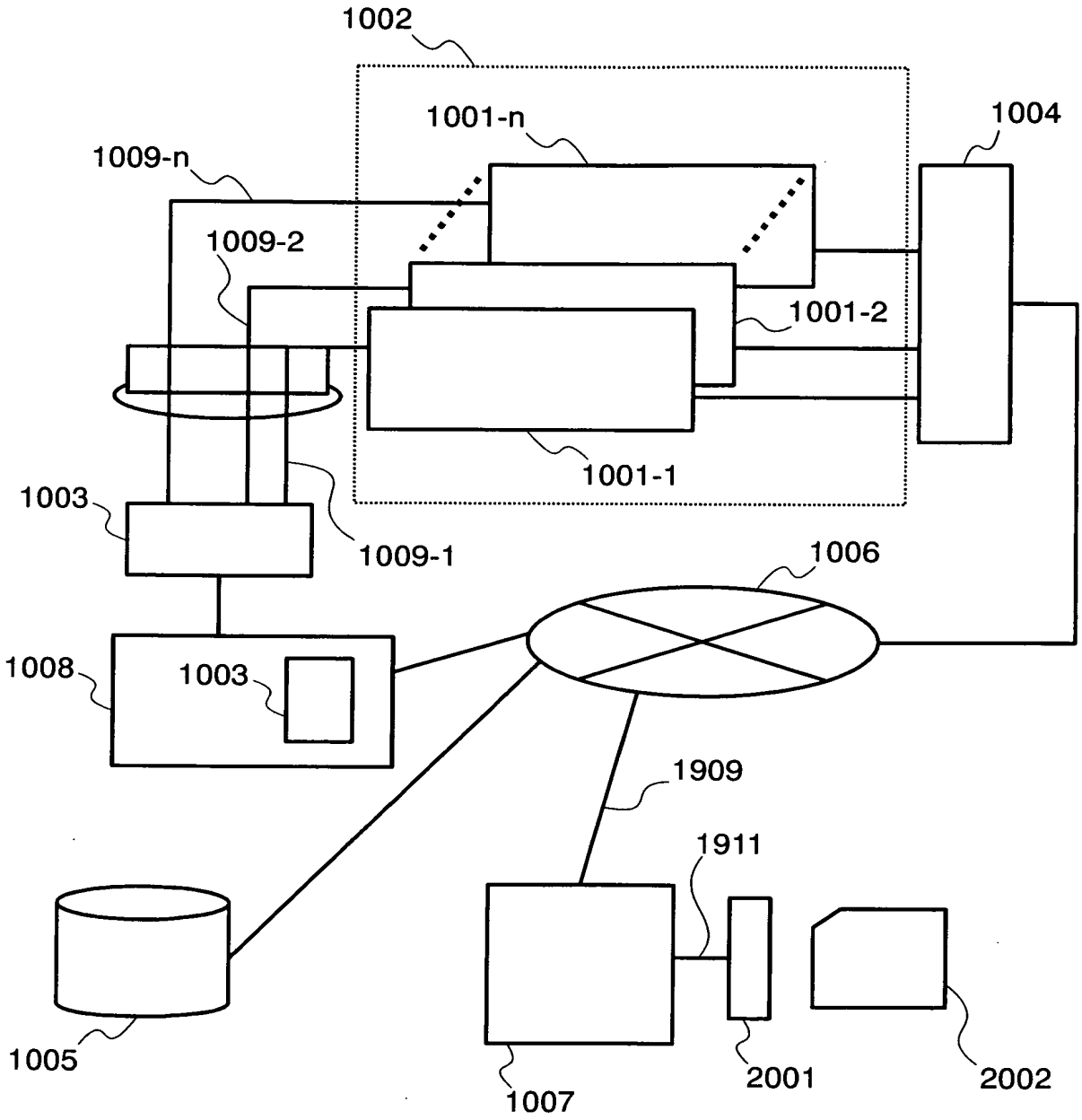

1002
1001-n
1004
1009-n
1009-2
1001-2
1001-1
1003
1009-1
1006
1008
1003
1909
1911
1005
1007
2001
2002

FIG.13

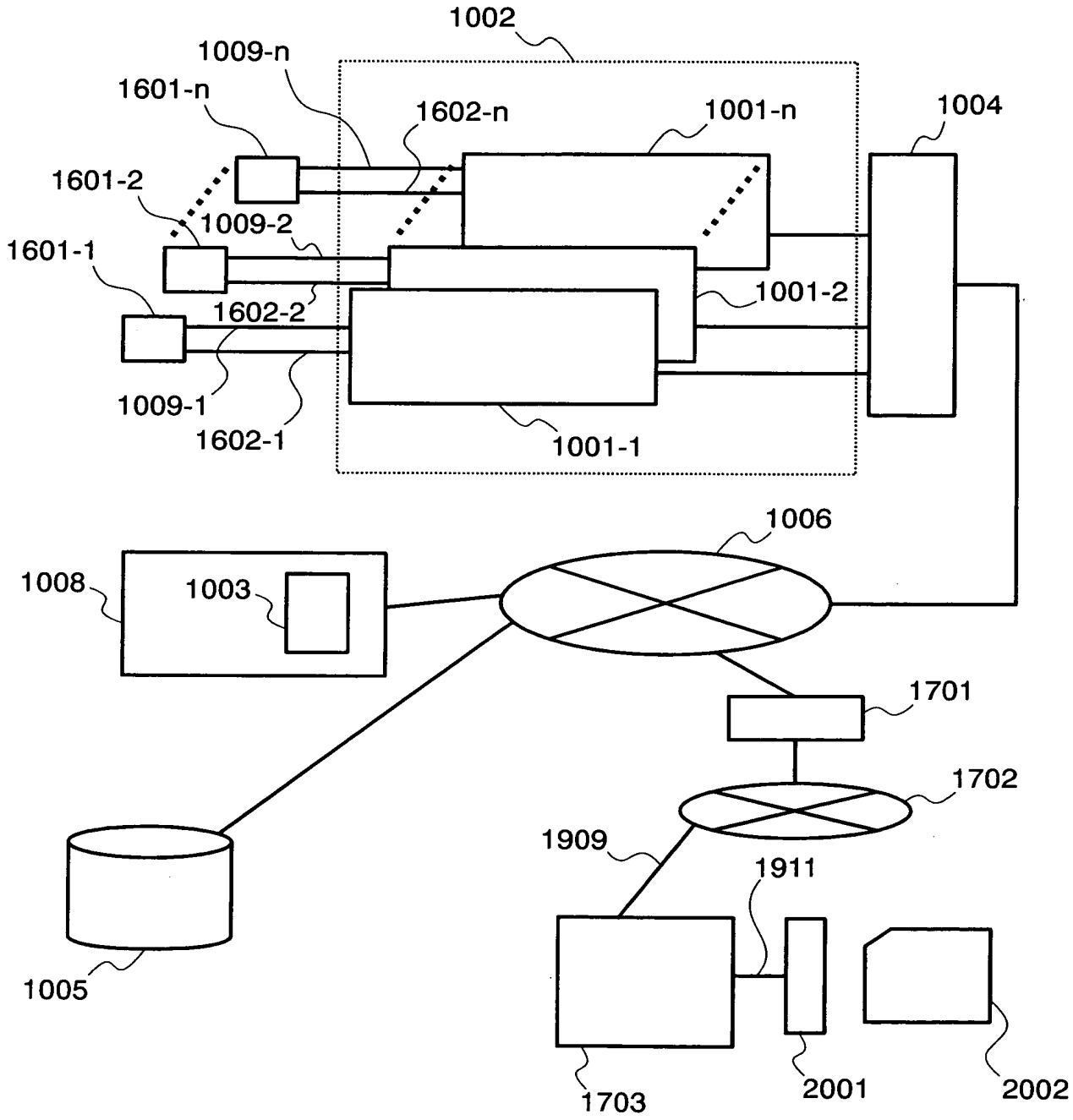

1002
1009-n
1601-n
1602-n
1001-n
1004
1601-2
1009-2
1601-1
1001-2
1602-2
1009-1
1602-1
1001-1
1006
1008
1003
1701
1702
1909
1911
1005
1703
2001
2002

FIG.14

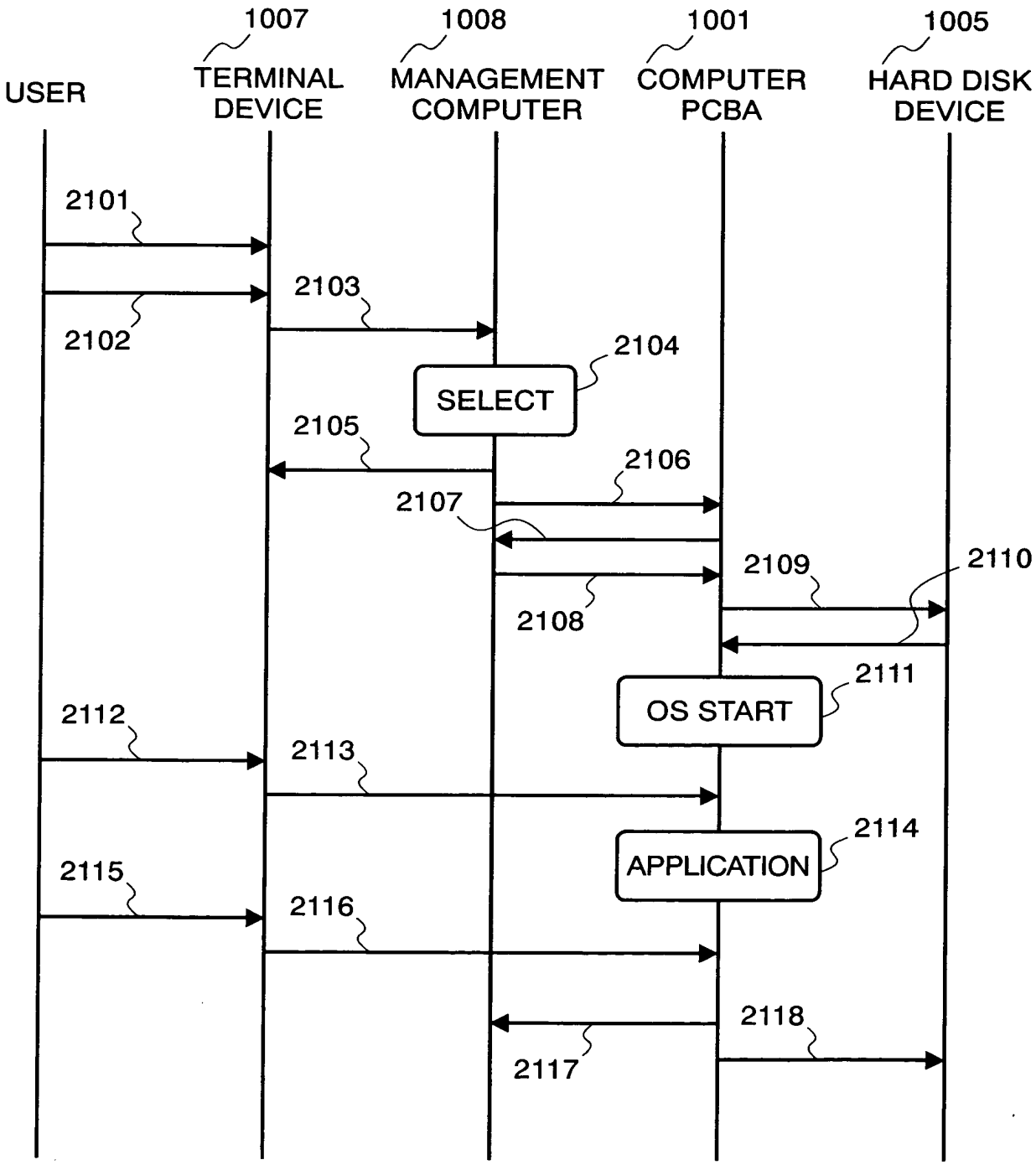

1007
1008
1001
1005
USER
TERMINAL DEVICE
MANAGEMENT COMPUTER
COMPUTER PCBA
HARD DISK DEVICE
2101
2102
2103
2104
SELECT
2105
2106
2107
2108
2109
2110
2111
OS START
2112
2113
2114
APPLICATION
2115
2116
2117
2118

FIG.15

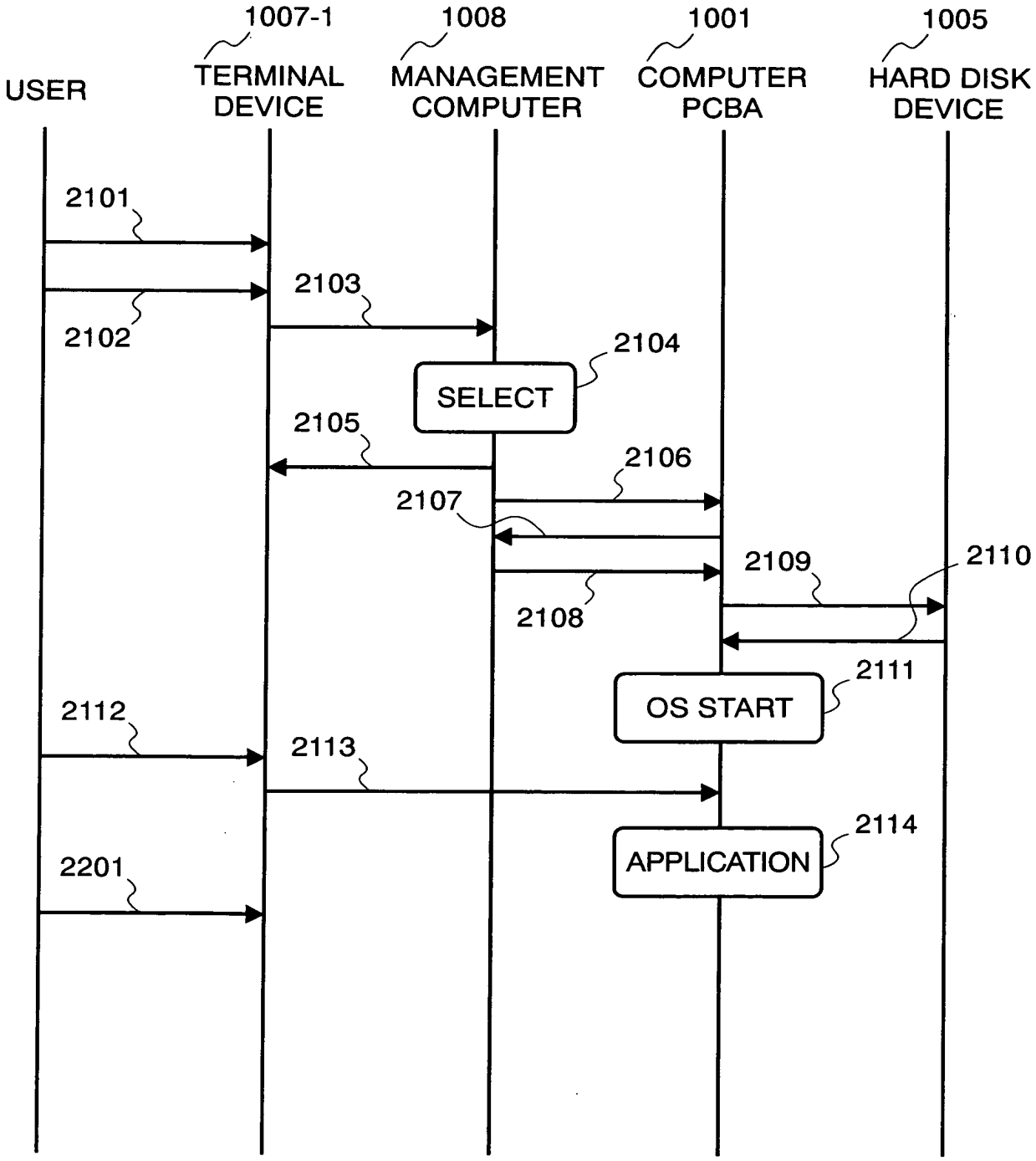

USER
1007-1
TERMINAL DEVICE
1008
MANAGEMENT COMPUTER
1001
COMPUTER PCBA
1005
HARD DISK DEVICE
2101
2102
2103
2104
SELECT
2105
2106
2107
2108
2109
2110
2111
OS START
2112
2113
2114
APPLICATION
2201

FIG.16

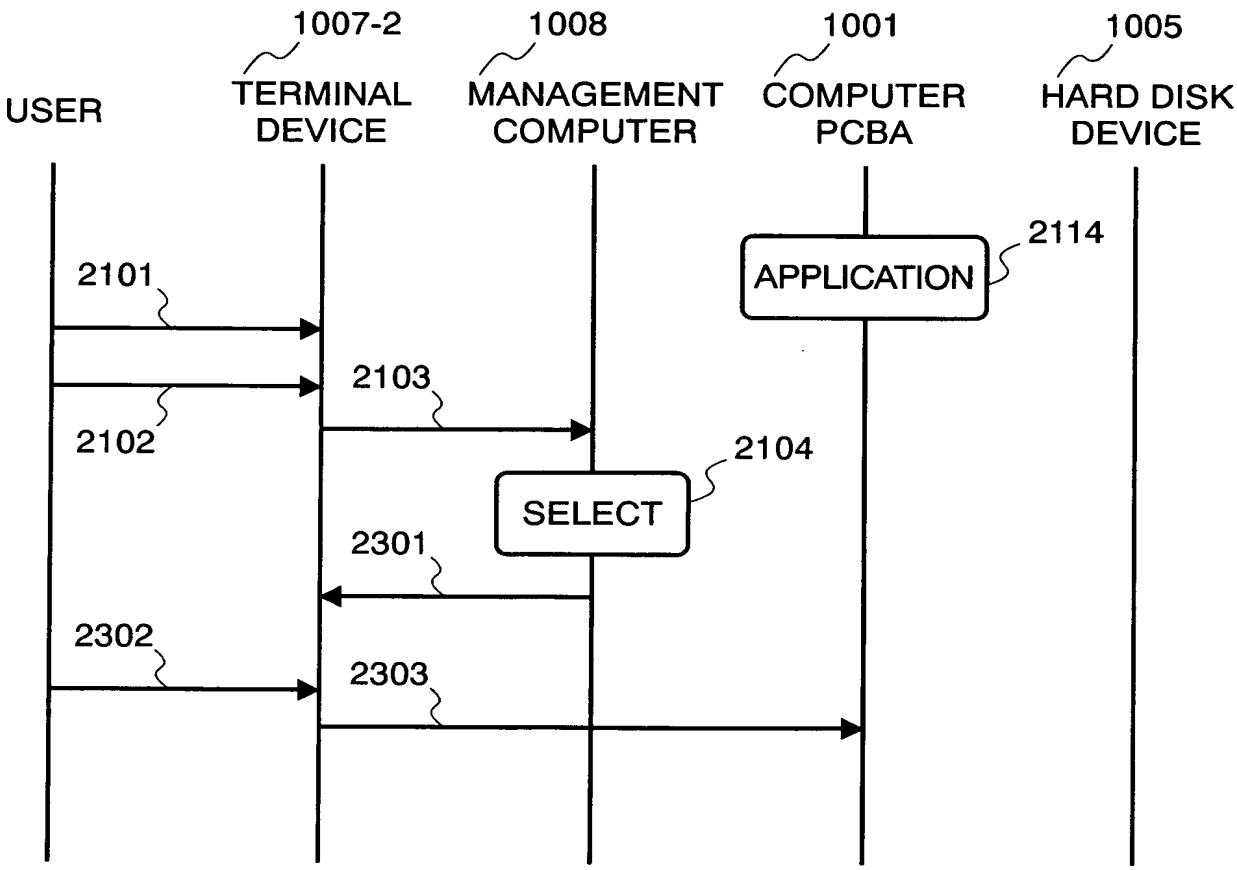

1007-2
1008
1001
1005
USER
TERMINAL DEVICE
MANAGEMENT COMPUTER
COMPUTER PCBA
HARD DISK DEVICE
2114
APPLICATION
2101
2103
2102
2104
SELECT
2301
2302
2303

FIG.17

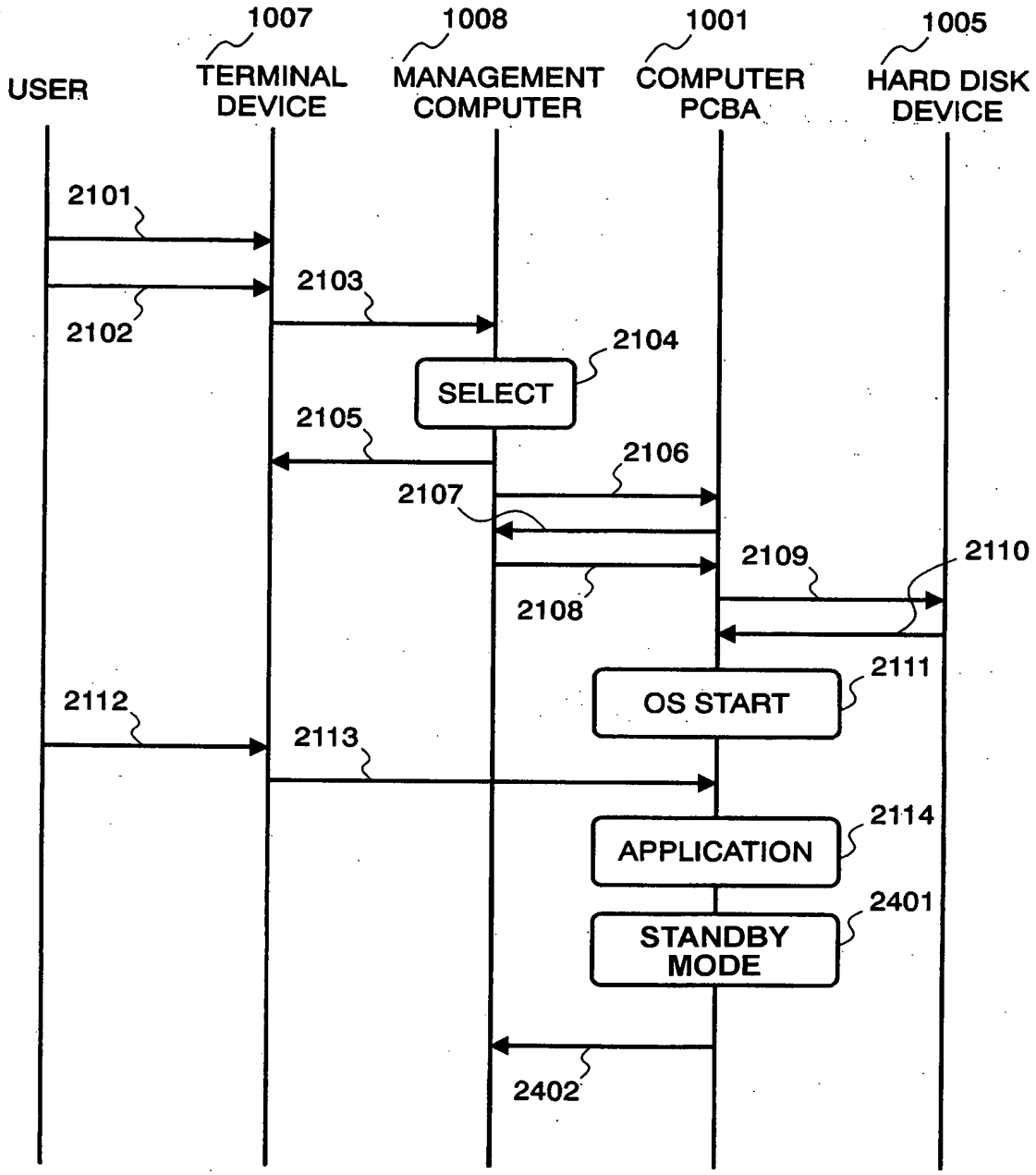

USER
TERMINAL DEVICE
MANAGEMENT COMPUTER
COMPUTER PCBA
HARD DISK DEVICE
1007
1008
1001
1005
2101
2102
2103
2104
SELECT
2105
2106
2107
2108
2109
2110
2111
OS START
2112
2113
2114
APPLICATION
2401
STANDBY MODE
2402

FIG.18

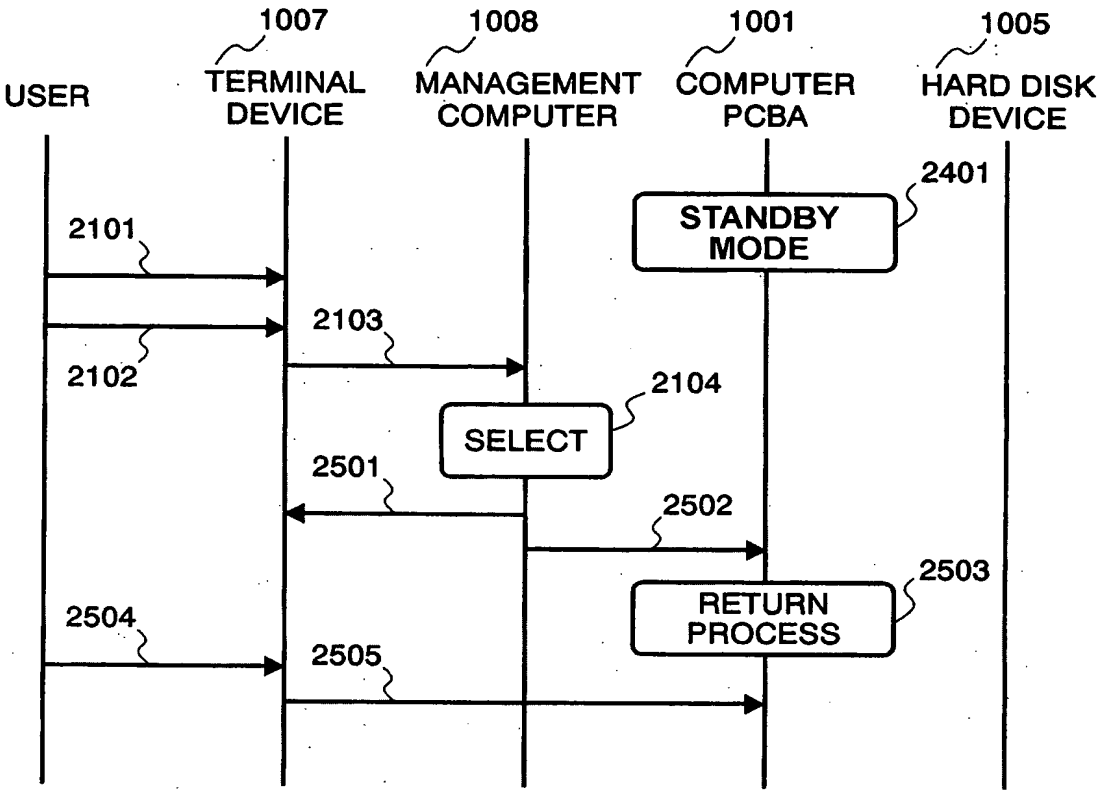

USER
1007
TERMINAL DEVICE
1008
MANAGEMENT COMPUTER
1001
COMPUTER PCBA
1005
HARD DISK DEVICE
2401
STANDBY MODE
2101
2102
2103
2104
SELECT
2501
2502
2503
RETURN PROCESS
2504
2505

FIG.19

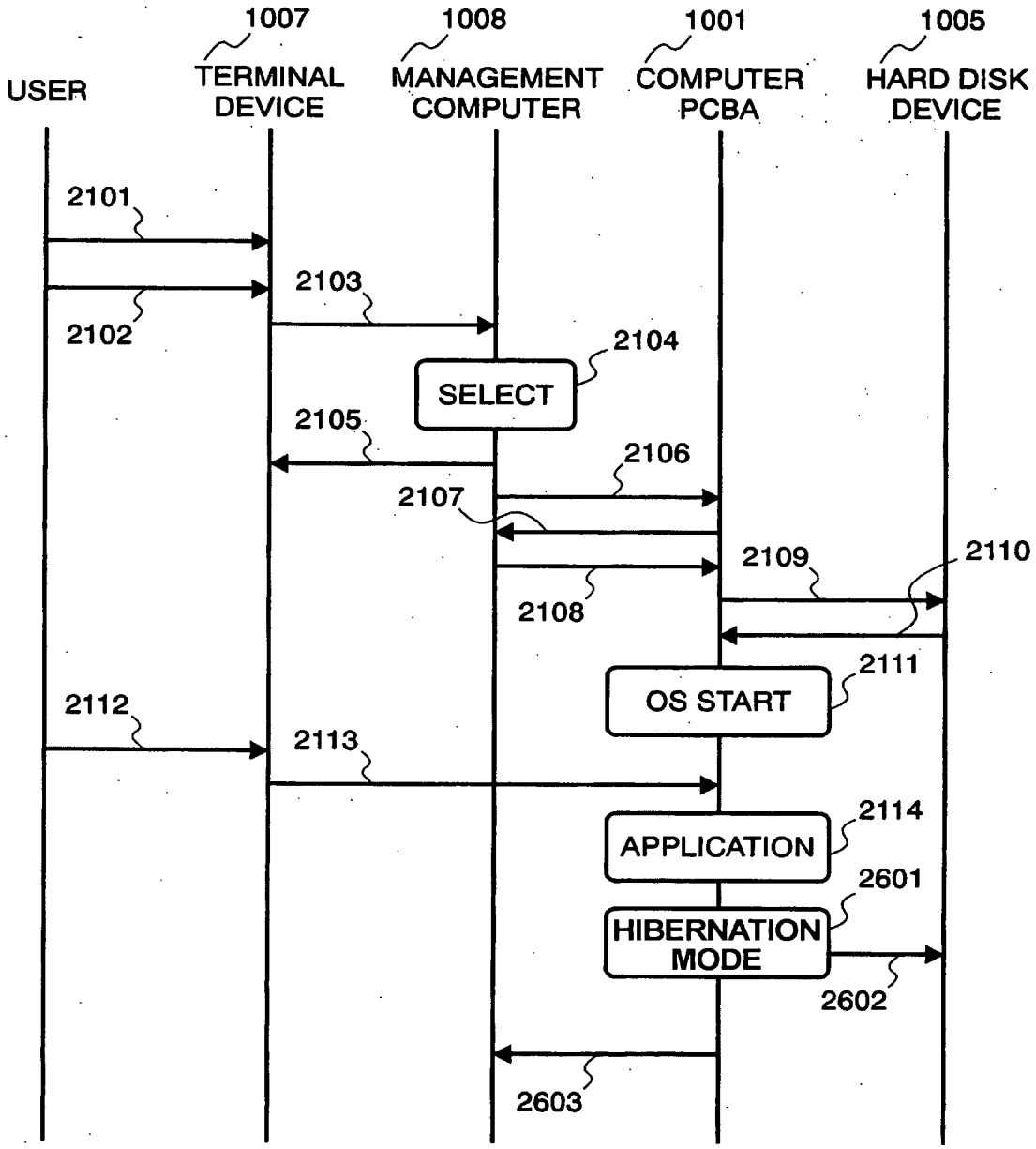

USER
TERMINAL DEVICE
1007
MANAGEMENT COMPUTER
1008
COMPUTER PCBA
1001
HARD DISK DEVICE
1005
2101
2102
2103
2104
SELECT
2105
2106
2107
2108
2109
2110
2111
OS START
2112
2113
2114
APPLICATION
2601
HIBERNATION MODE
2602
2603

FIG.20

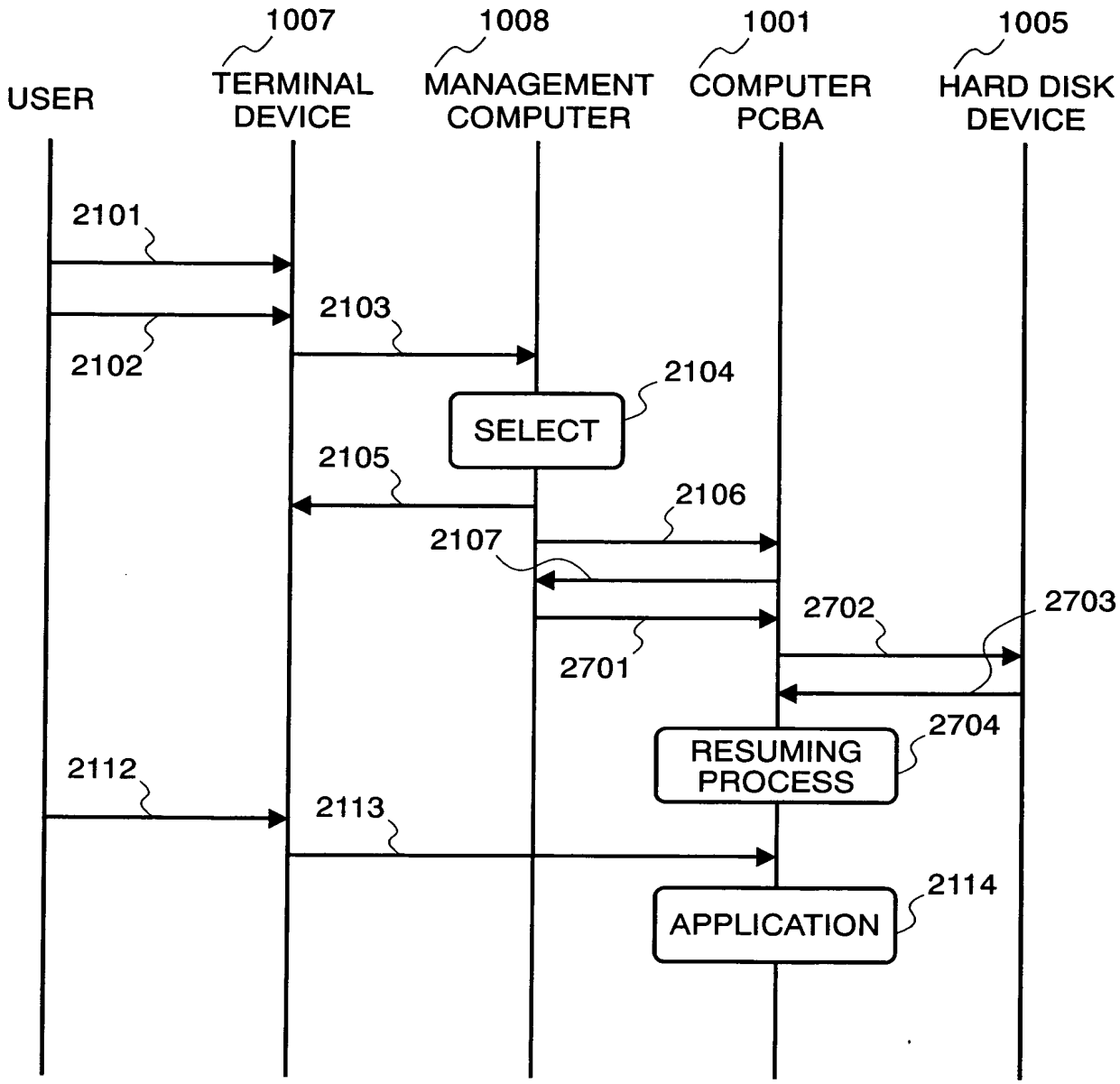

USER
1007
TERMINAL DEVICE
1008
MANAGEMENT COMPUTER
1001
COMPUTER PCBA
1005
HARD DISK DEVICE
2101
2102
2103
2104
SELECT
2105
2106
2107
2701
2702
2703
2704
RESUMING PROCESS
2112
2113
2114
APPLICATION

FIG.21

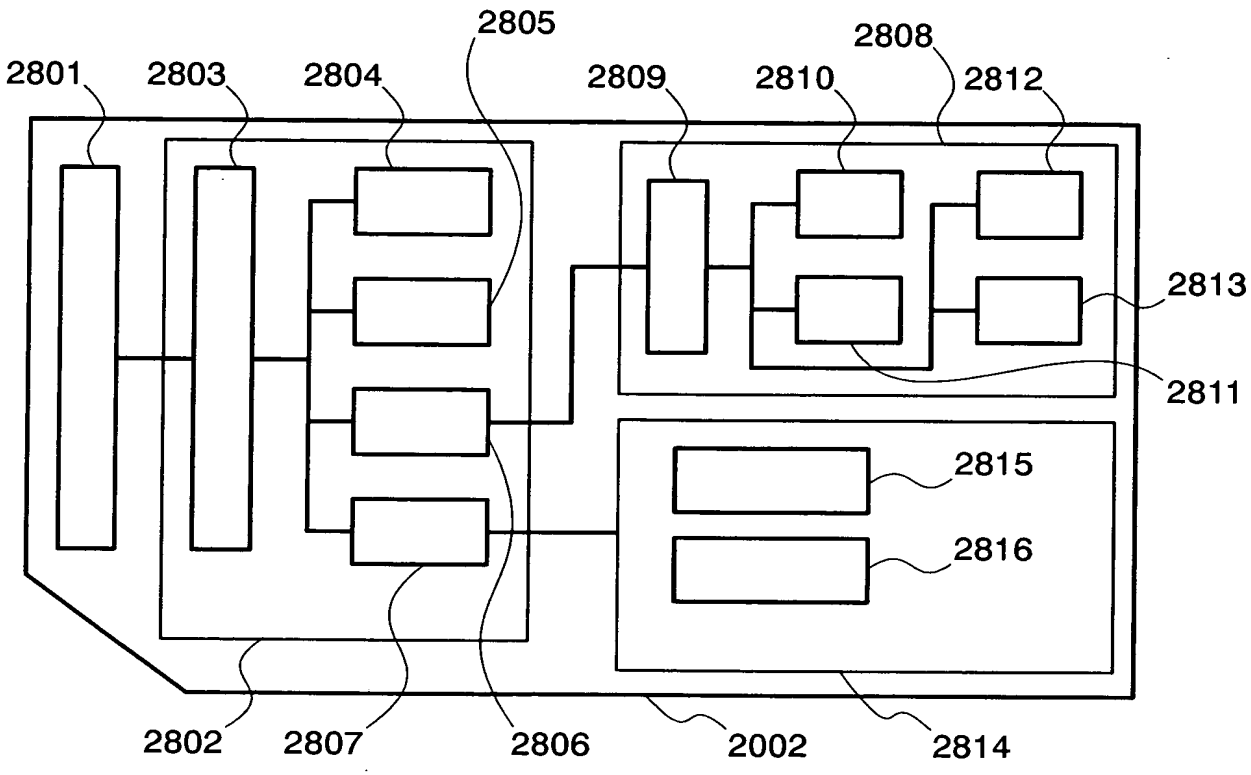

2801
2803
2804
2805
2808
2809
2810
2812
2813
2811
2815
2816
2802
2807
2806
2002
2814

FIG.22

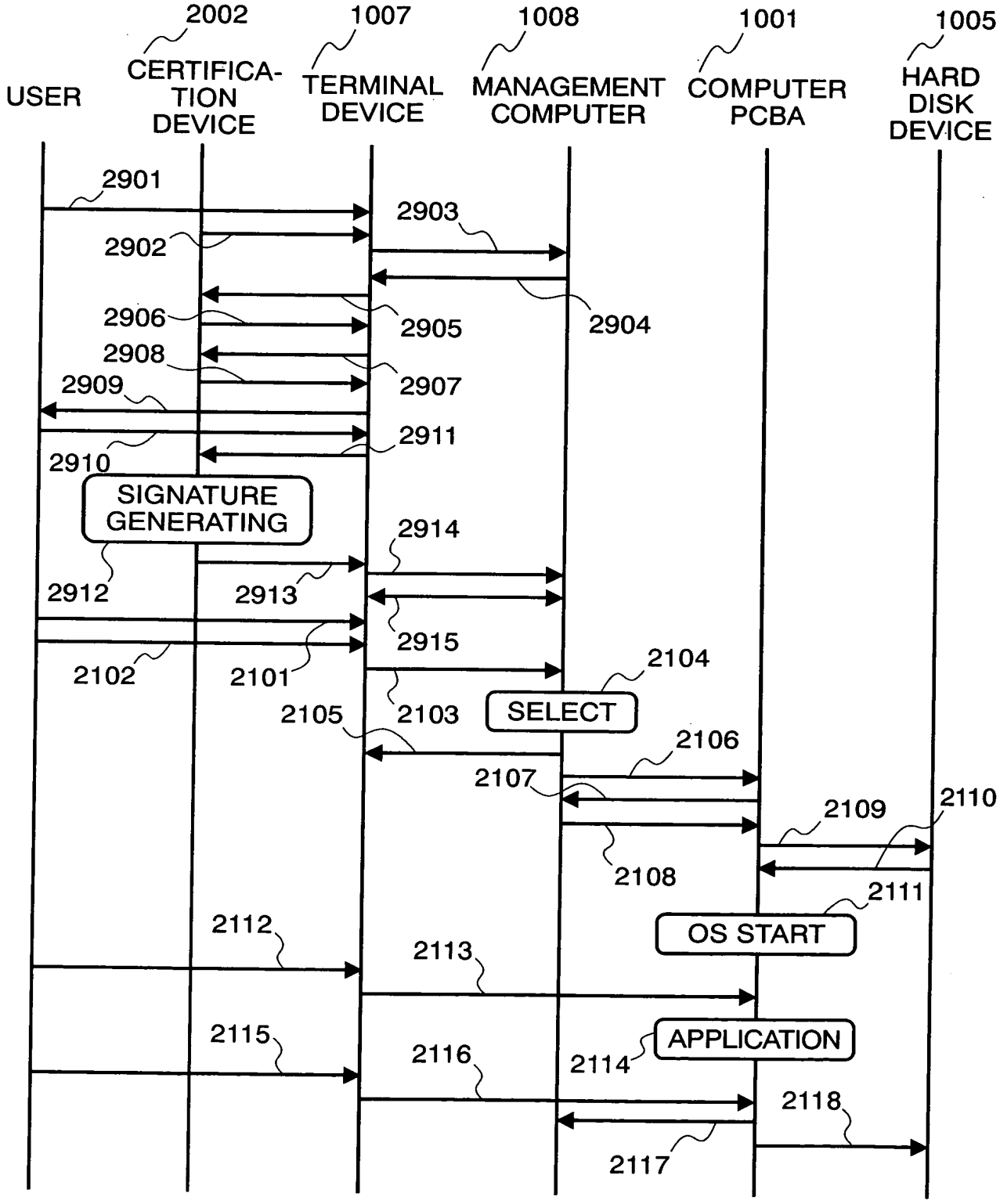

USER
2002
CERTIFICA-TION DEVICE
1007
TERMINAL DEVICE
1008
MANAGEMENT COMPUTER
1001
COMPUTER PCBA
1005
HARD DISK DEVICE
2901
2902
2903
2904
2905
2906
2907
2908
2909
2910
2911
SIGNATURE GENERATING
2912
2913
2914
2915
2101
2102
2103
2104
SELECT
2105
2106
2107
2108
2109
2110
2111
OS START
2112
2113
2114
APPLICATION
2115
2116
2117
2118

FIG.23

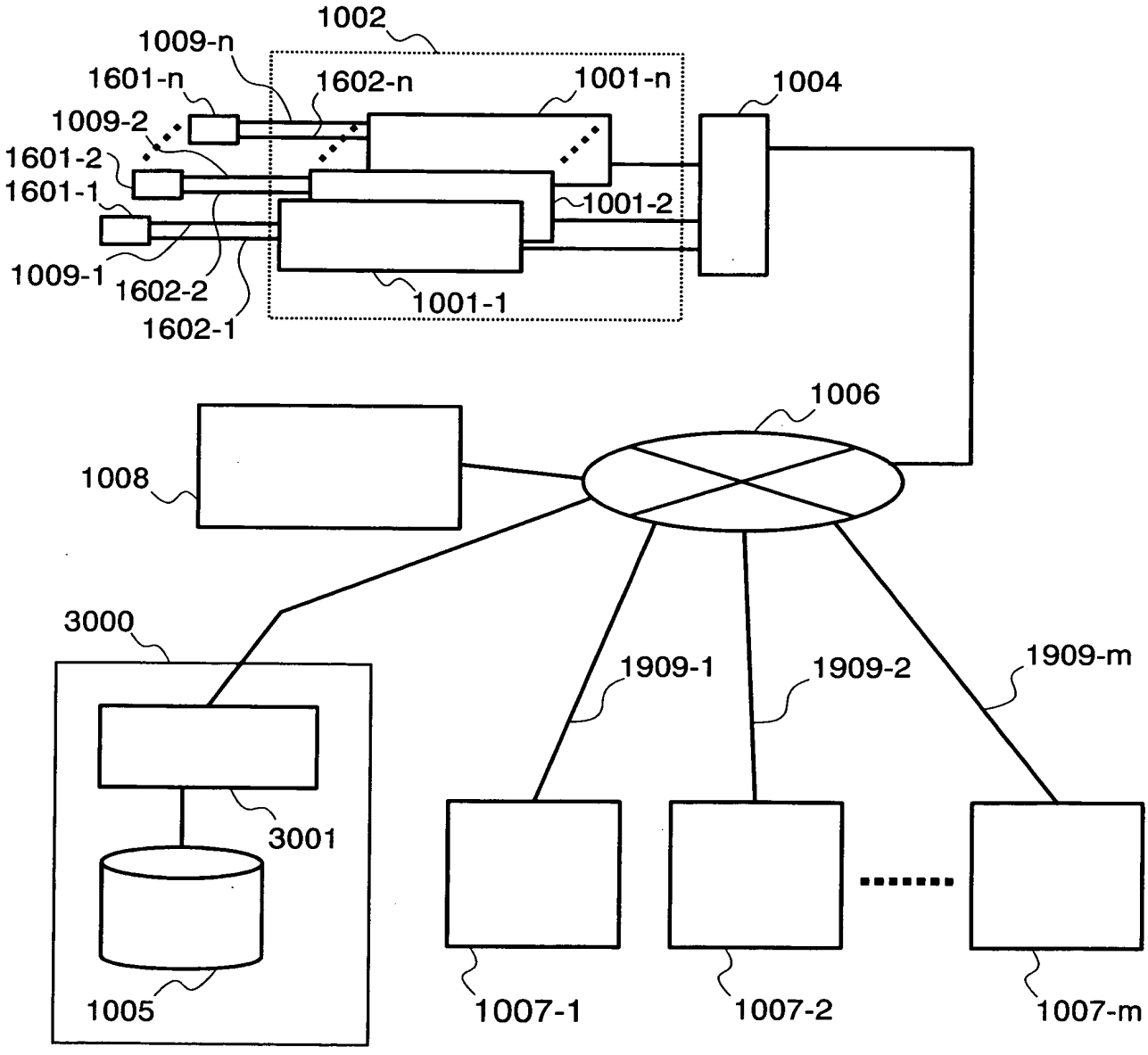

1002
1009-n
1601-n
1602-n
1001-n
1004
1009-2
1601-2
1601-1
1001-2
1009-1
1602-2
1602-1
1001-1
1006
1008
3000
1909-1
1909-2
1909-m
3001
1005
1007-1
1007-2
1007-m

FIG.24

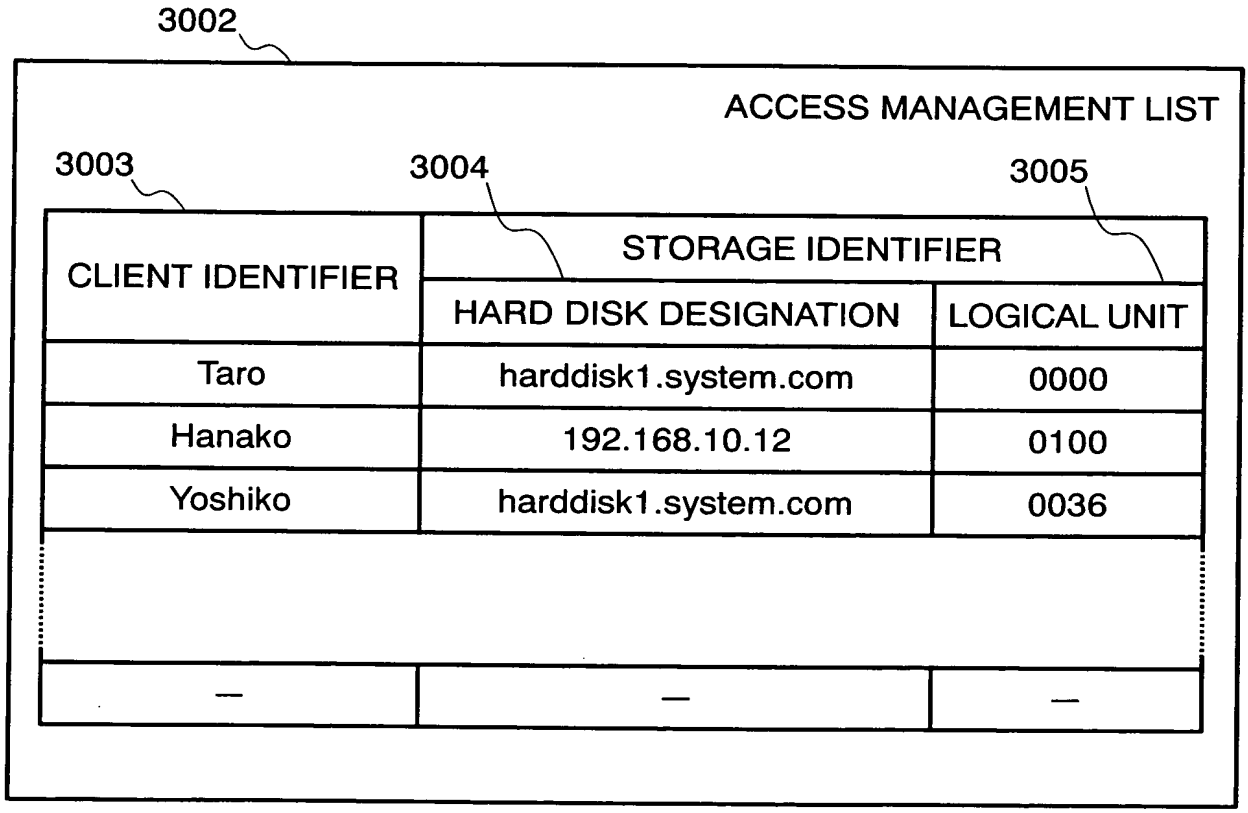

3002
ACCESS MANAGEMENT LIST
3003
3004
3005
CLIENT IDENTIFIER
STORAGE IDENTIFIER
HARD DISK DESIGNATION
LOGICAL UNIT
Taro
harddisk1.system.com
0000
Hanako
192.168.10.12
0100
Yoshiko
harddisk1.system.com
0036
—
—
—

FIG.25

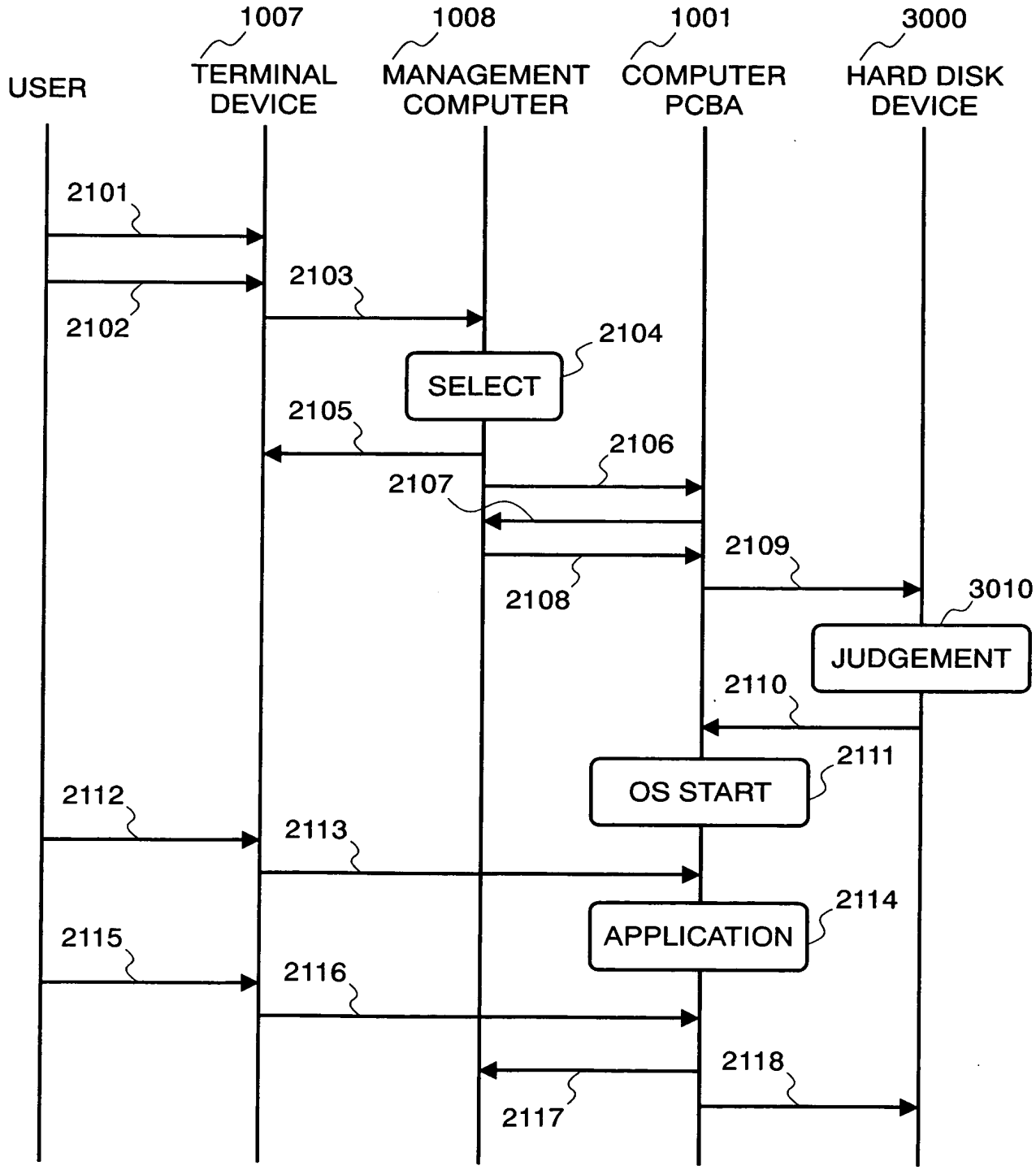

USER
1007
TERMINAL DEVICE
1008
MANAGEMENT COMPUTER
1001
COMPUTER PCBA
3000
HARD DISK DEVICE
2101
2102
2103
2104
SELECT
2105
2106
2107
2108
2109
3010
JUDGEMENT
2110
2111
OS START
2112
2113
2114
APPLICATION
2115
2116
2117
2118

FIG.26

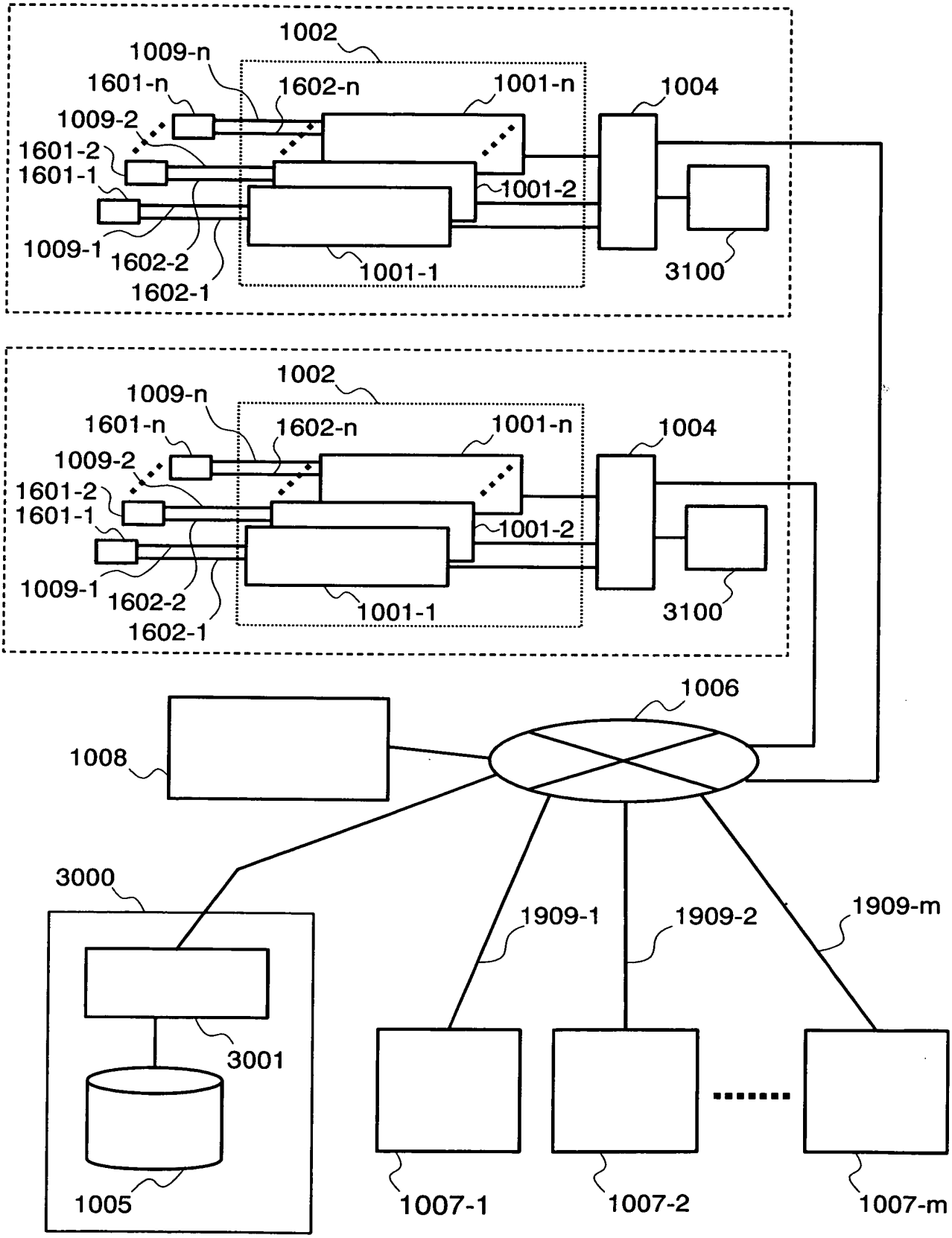
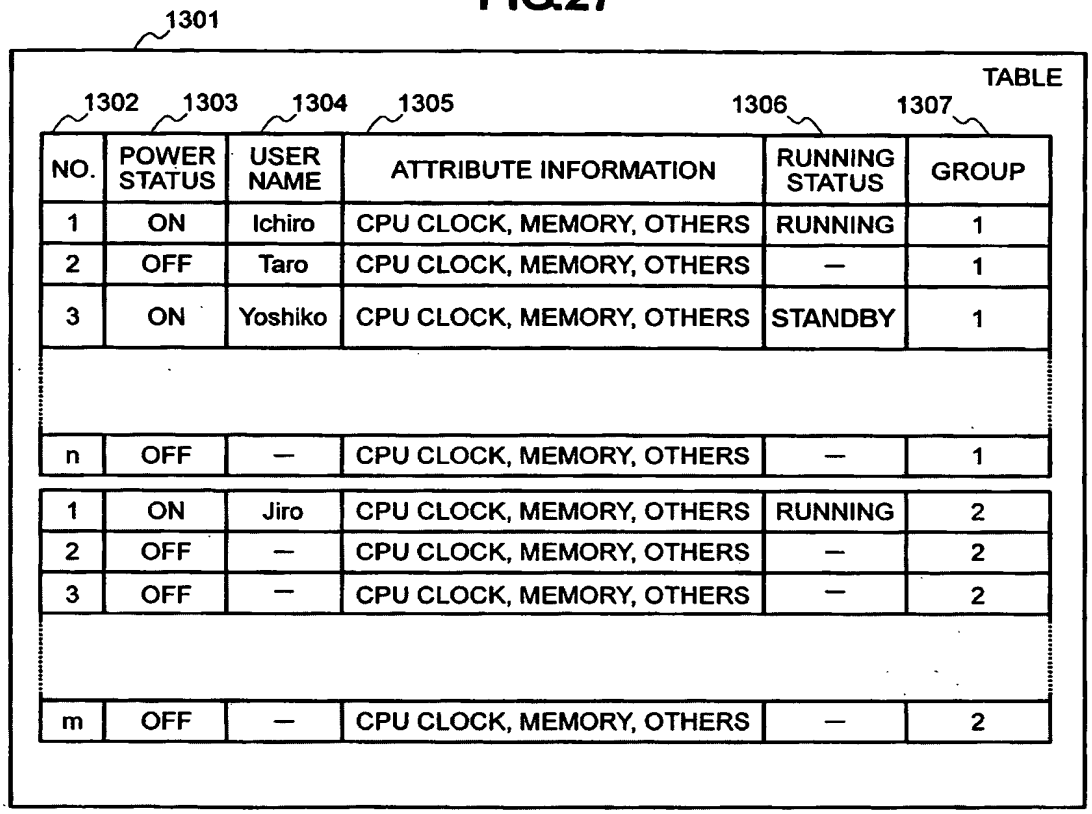

1002
1009-n
1601-n
1602-n
1001-n
1004
1009-2
1601-2
1601-1
1001-2
1009-1
1602-2
1001-1
3100
1602-1
1002
1009-n
1601-n
1602-n
1001-n
1004
1009-2
1601-2
1601-1
1001-2
1009-1
1602-2
1001-1
3100
1602-1
1006
1008
3000
1909-1
1909-2
1909-m
3001
1005
1007-1
1007-2
1007-m

FIG.27



NO.	POWER STATUS	USER NAME	ATTRIBUTE INFORMATION	RUNNING STATUS	GROUP
1	ON	Ichiro	CPU CLOCK, MEMORY, OTHERS	RUNNING	1
2	OFF	Taro	CPU CLOCK, MEMORY, OTHERS	—	1
3	ON	Yoshiko	CPU CLOCK, MEMORY, OTHERS	STANDBY	1
n	OFF	—	CPU CLOCK, MEMORY, OTHERS	—	1
1	ON	Jiro	CPU CLOCK, MEMORY, OTHERS	RUNNING	2
2	OFF	—	CPU CLOCK, MEMORY, OTHERS	—	2
3	OFF	—	CPU CLOCK, MEMORY, OTHERS	—	2
m	OFF	—	CPU CLOCK, MEMORY, OTHERS	—	2

FIG.28

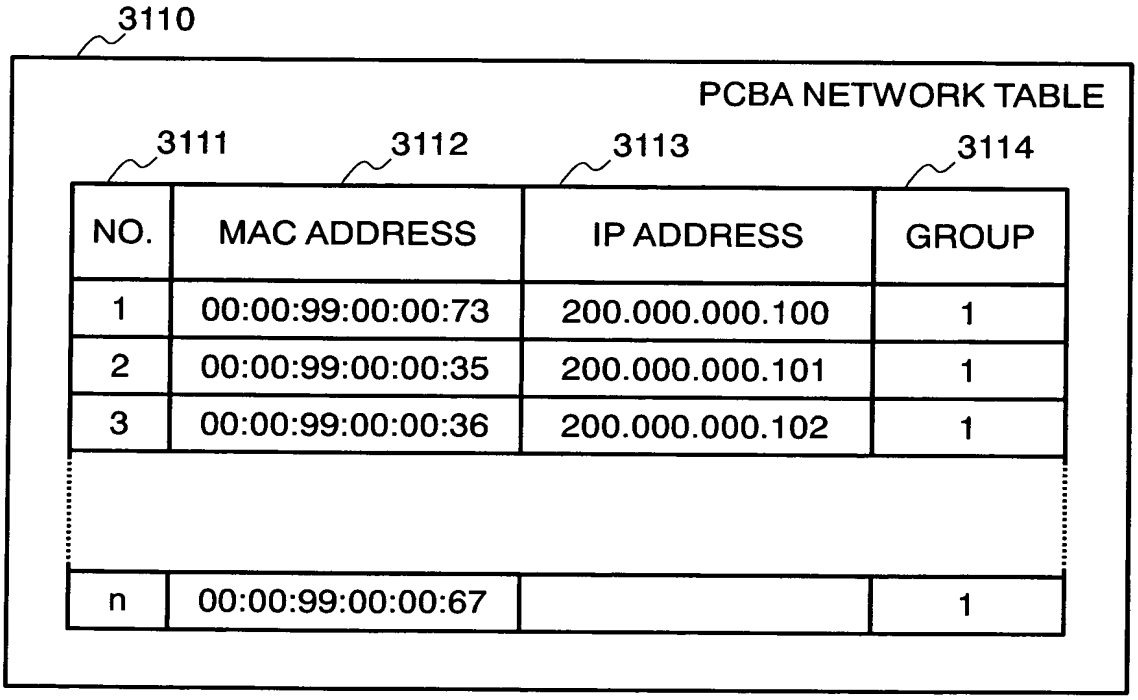

3110
PCBA NETWORK TABLE
3111
3112
3113
3114
NO.
MAC ADDRESS
IP ADDRESS
GROUP
1
00:00:99:00:00:73
200.000.000.100
1
2
00:00:99:00:00:35
200.000.000.101
1
3
00:00:99:00:00:36
200.000.000.102
1
n
00:00:99:00:00:67
1

FIG.29

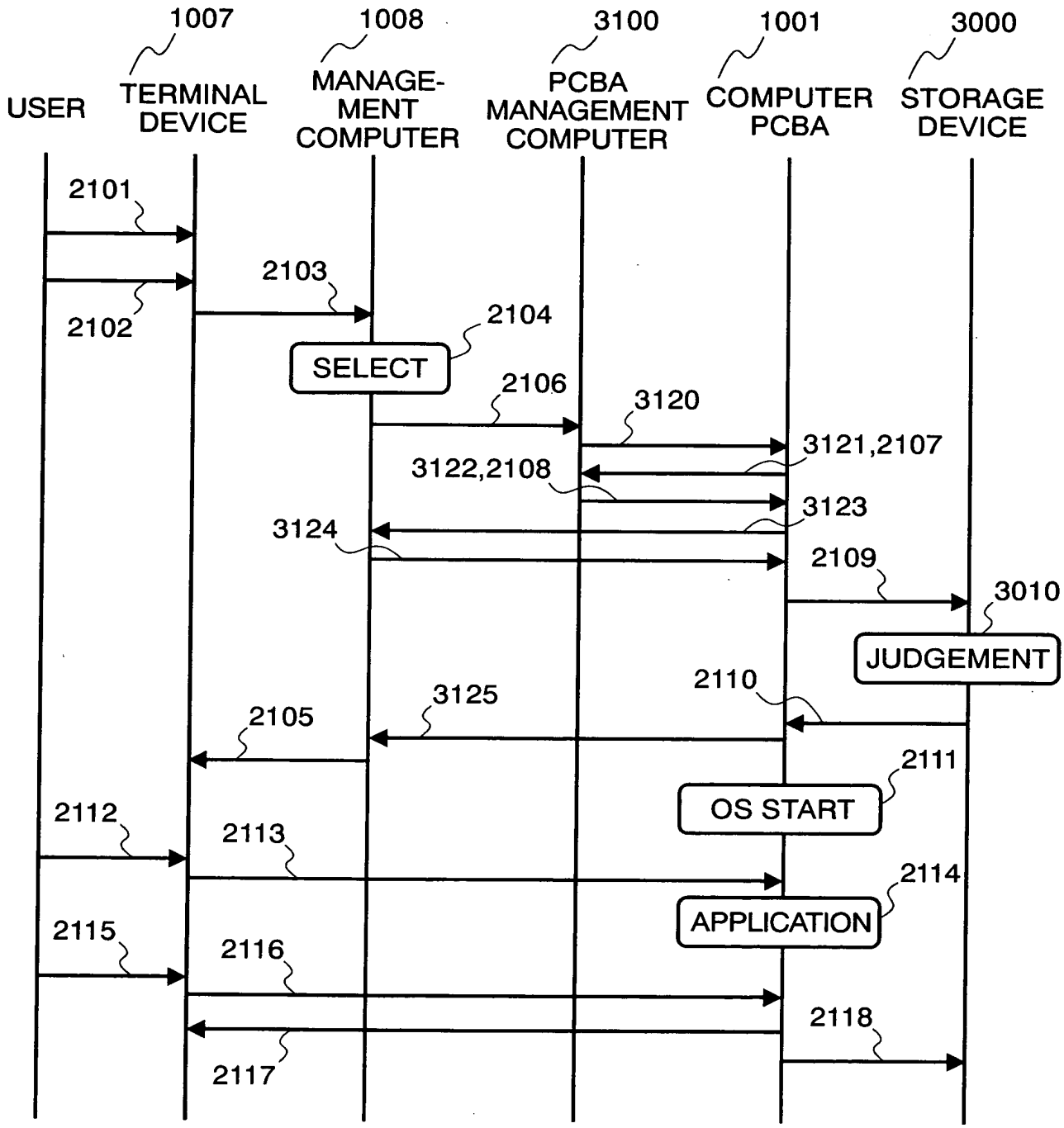

1007
1008
3100
1001
3000
USER
TERMINAL DEVICE
MANAGE-MENT COMPUTER
PCBA MANAGEMENT COMPUTER
COMPUTER PCBA
STORAGE DEVICE
2101
2102
2103
2104
SELECT
2106
3120
3121,2107
3122,2108
3123
3124
2109
3010
JUDGEMENT
2110
3125
2105
2111
OS START
2112
2113
2114
APPLICATION
2115
2116
2118
2117

FIG.30

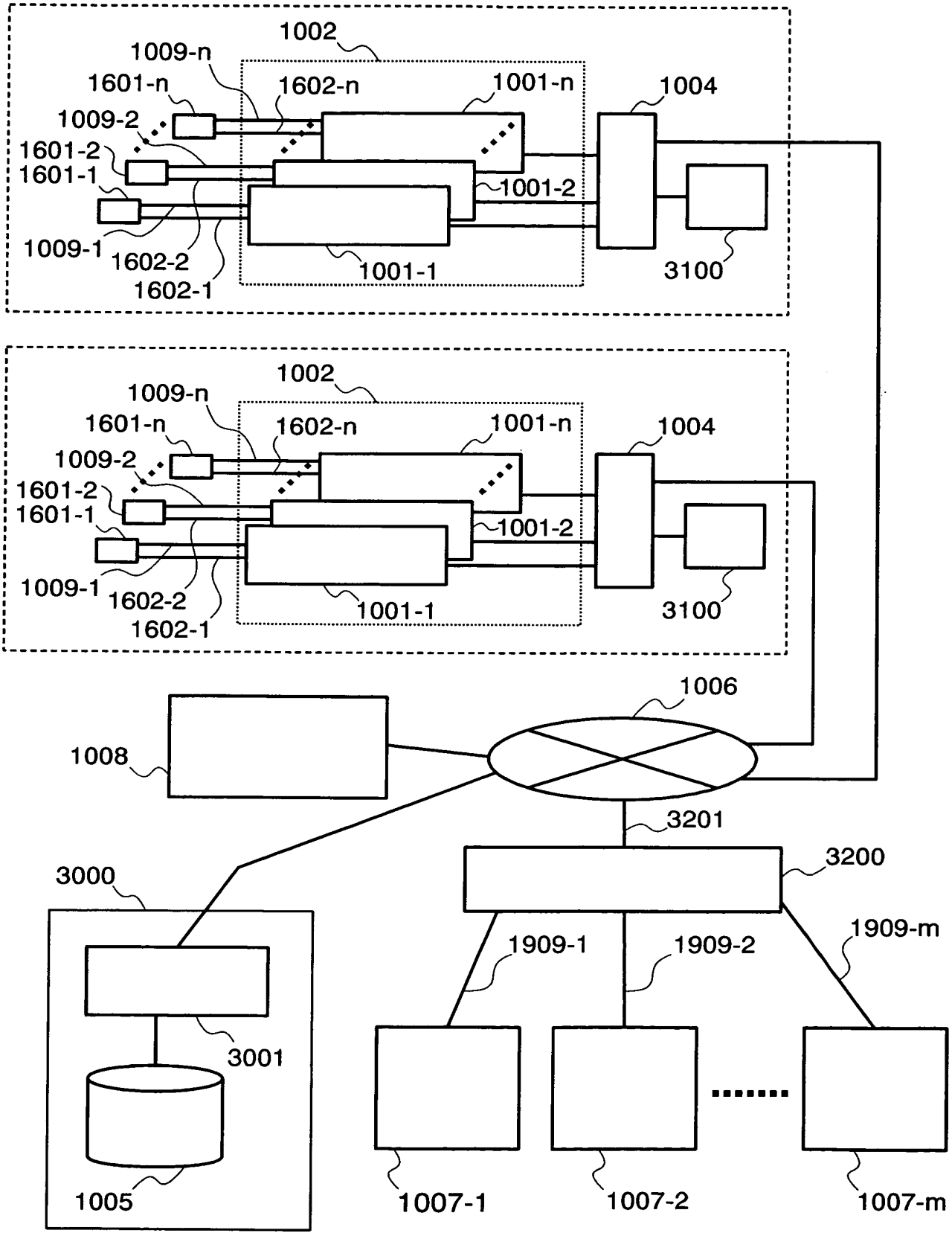
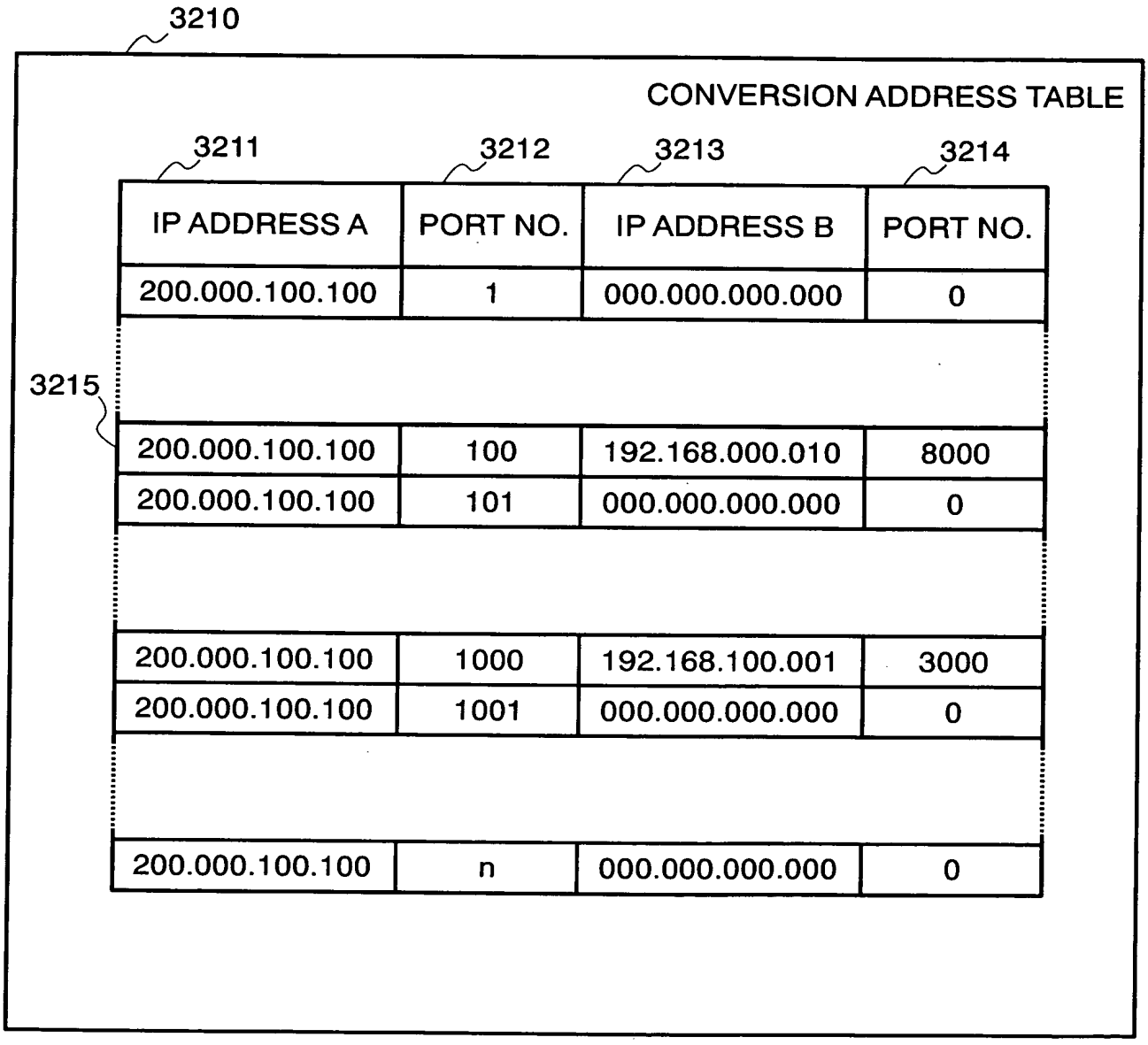

1002
1009-n
1601-n
1602-n
1001-n
1004
1009-2
1601-2
1601-1
1001-2
1009-1
1602-2
1602-1
1001-1
3100
1002
1009-n
1601-n
1602-n
1001-n
1004
1009-2
1601-2
1601-1
1001-2
1009-1
1602-2
1602-1
1001-1
3100
1006
1008
3201
3200
3000
1909-1
1909-2
1909-m
3001
1005
1007-1
1007-2
1007-m

FIG.31



IP ADDRESS A	PORT NO.	IP ADDRESS B	PORT NO.
200.000.100.100	1	000.000.000.000	0
200.000.100.100	100	192.168.000.010	8000
200.000.100.100	101	000.000.000.000	0
200.000.100.100	1000	192.168.100.001	3000
200.000.100.100	1001	000.000.000.000	0
200.000.100.100	n	000.000.000.000	0

FIG.32

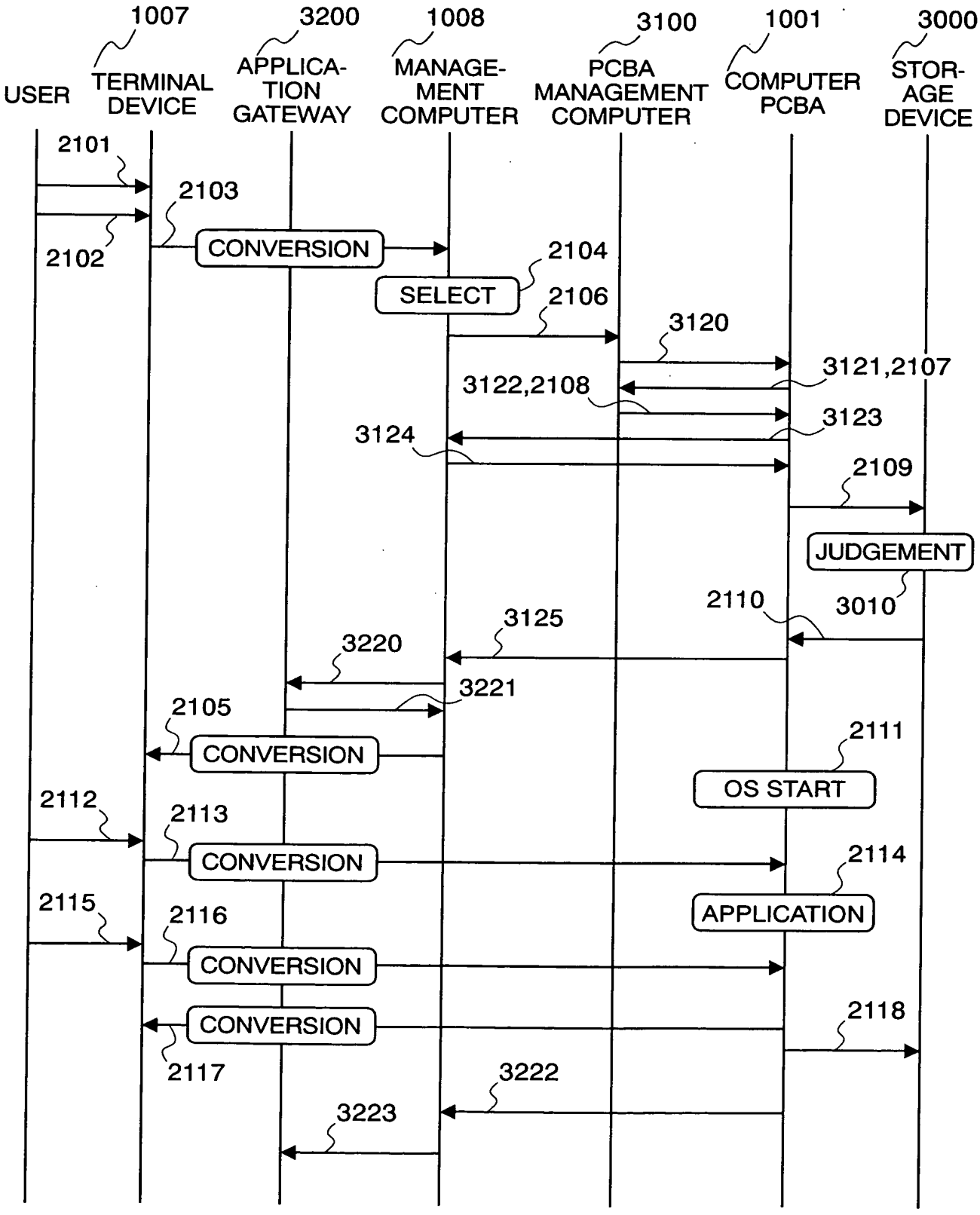
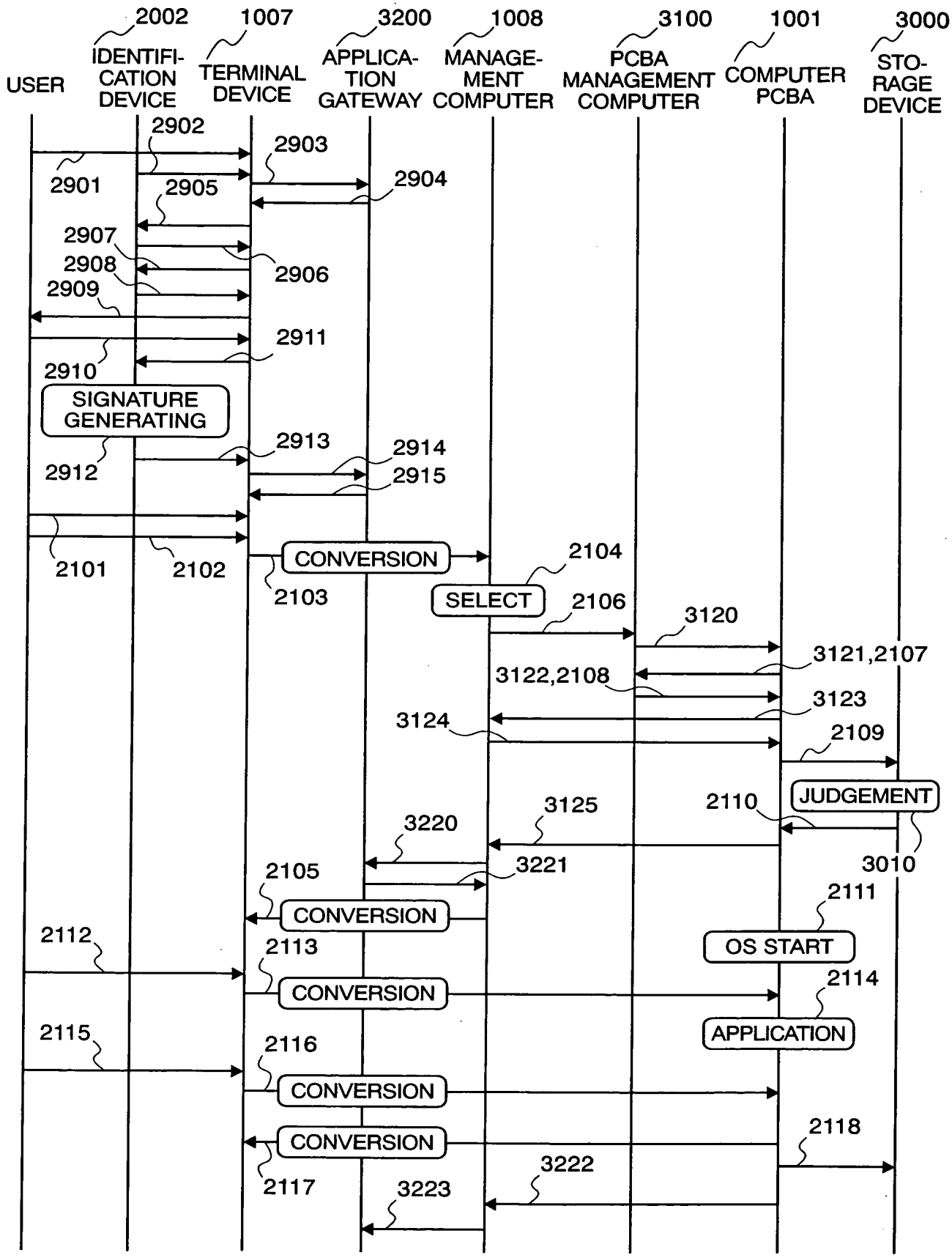

USER
TERMINAL DEVICE
1007
APPLICA-TION GATEWAY
3200
MANAGE-MENT COMPUTER
1008
PCBA MANAGEMENT COMPUTER
3100
COMPUTER PCBA
1001
STOR-AGE DEVICE
3000
2101
2102
2103
CONVERSION
2104
SELECT
2106
3120
3121,2107
3122,2108
3123
3124
2109
JUDGEMENT
3010
2110
3125
3220
3221
2105
CONVERSION
2111
OS START
2112
2113
CONVERSION
2114
APPLICATION
2115
2116
CONVERSION
CONVERSION
2118
2117
3222
3223

FIG.33


USER
2002
IDENTIFI-CATION DEVICE
1007
TERMINAL DEVICE
3200
APPLICA-TION GATEWAY
1008
MANAGE-MENT COMPUTER
3100
PCBA MANAGEMENT COMPUTER
1001
COMPUTER PCBA
3000
STO-RAGE DEVICE
2901
2902
2903
2904
2905
2906
2907
2908
2909
2910
2911
SIGNATURE GENERATING
2912
2913
2914
2915
2101
2102
CONVERSION
2103
2104
SELECT
2106
3120
3121,2107
3122,2108
3123
3124
2109
JUDGEMENT
2110
3125
3220
3221
3010
2105
CONVERSION
2111
OS START
2112
2113
CONVERSION
2114
APPLICATION
2115
2116
CONVERSION
CONVERSION
2118
2117
3222
3223